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Abh. schw. paläont. Gesellsch. See *Mém. Soc. paléont. suisse.*

Abh. Senckenb. naturf. Gesellsch. Abhandlungen herausgegeben von der Senckenbergischen naturforschenden Gesellschaft. Frankfort-on-the-Main.

Abs. Proc. G. S. Abstracts of the Proceedings of the Geological Society. London.

Actes Soc. helv. Sci. nat. Actes de la Société helvétique des Sciences Naturelles. Berne, &c.

Actes Soc. Linn. Bordeaux. Actes de la Société Linnéenne de Bordeaux. Bordeaux.

Actes Soc. sci. Chili. Actes de la Société scientifique du Chili. Santiago de Chile.

Am. Geol. American Geologist. Minneapolis (Minn.).

Am. Journ. Sci. American Journal of Science. New Haven (Conn.).

An. Mus. La Plata. Anales del Museo de la Plata. La Plata.

An. Mus. Nac. Buenos Aires. Anales del Museo Nacional de Buenos Aires. Buenos Aires.

An. Soc. cient. Argent. Anales de la Sociedad científica Argentina. Buenos Aires.

Ann. Acad. Roy. Belg. Annuaire de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.

Ann. Club alpin franç. Annuaire du Club alpin français. Paris.

Ann. Géol. et Paléont. Palerme. Annales de Géologie et de Paléontologie. Palermo.

Ann. k.-k. naturhist. Hofmus. Wien. Annalen des kaiserlich-königlichen naturhistorischen Hofmuseums. Vienna.

Ann. Mag. Nat. Hist. Annals and Magazine of Natural History. London.

Ann. Mines, Paris. Annales des Mines. Paris.

Ann. N.Y. Acad. Sci. Annals of the New York Academy of Sciences. New York.

Ann. R. Univ. Pisa. Annuario della Reale Università di Pisa. Pisa.

Ann. Rep. Am. Mus. Nat. Hist. N.Y. Annual Report of the American Museum of Natural History. New York.

Ann. Rep. Bureau Mines, B.C. Annual Report of the Bureau of Mines, British Columbia. Victoria (B.C.).

Ann. Rep. Dep. Geol. Indiana. Annual Report of the Department of Geology and Natural Resources of Indiana. Indianapolis (Ind.).

Ann. Rep. Dep. Mines, N.S.W. Annual Report of the Department of Mines and Agriculture, New South Wales. Sydney.
Ann. Rep. Dep. Mines, Queensl. Annual Report of the Under Secretary for Mines, Queensland. Brisbane.
Ann. Rep. Geol. Surv. Canada. Annual Report of the Geological Survey of Canada. Ottawa. See also *Summ. Rep.*
Ann. Rep. Geol. Surv. Gt. Brit. Annual Report of the Geological Survey of Great Britain. London.
Ann. Rep. Geol. Surv. Natal. Annual Report of the Geological Survey of Natal. Pietermaritzburg.
Ann. Rep. Geol. Surv. Queensl. Annual Progress Report of the Geological Survey of Queensland. Brisbane.
Ann. Rep. Geol. Surv. Transvaal. Annual Report of the Geological Survey of the Transvaal. Pretoria.
Ann. Rep. Geol. Surv. W. Austr. Annual Progress Report of the Geological Survey. Perth (W. Austr.).
Ann. Rep. Mus. Comp. Zool. Annual Report of the Assistant in Charge of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
Ann. Rep. Nat. Hist. Surv. Minn. Annual Report of the Geological and Natural History Survey of Minnesota. Minneapolis (Minn.).
Ann. Rep. Phil. Soc., Leeds. Annual Report of the Philosophical Society. Leeds.
Ann. Rep. Roy. Cornwall Polyt. Soc. Annual Report of the Royal Cornwall Polytechnic Society. Falmouth.
Ann. Rep. Smiths. Inst. Rep. U.S. Nat. Mus. Annual Report of the Board of Regents of the Smithsonian Institution. Report of the United States National Museum. Washington (D.C.).
Ann. Rep. U.S. Geol. Surv. Annual Report of the United States Geological Survey. Washington (D.C.).
Ann. Rep. Wellington Coll. Nat. Sci. Soc. Annual Report of the Wellington College Natural Science Society. Wellington College.
Ann. Rep. Yorks. Phil. Soc. Annual Report of the Yorkshire Philosophical Society. York.
Ann. sci. Acad. polyt. Porto. Annaes scientificos da Academia polytecnica do Porto. Coimbra.
Ann. Sci. nat. (*Zool. & Paléont.*). Annales des Sciences naturelles: Zoologie et Paléontologie. Paris.
Ann. Sci. Univ. Jassy. Annales scientifiques de l'Université de Jassy. Jassy (Rumania).
Ann. S.A. Mus., Cape Town. Annals of the South African Museum. Cape Town.
Ann. Soc. géol. Belg., Liége. Annales de la Société géologique de Belgique. Liége.
Ann. Soc. géol. Nord. Annales de la Société géologique du Nord. Lille.
Ann. Soc. R. zool. & malac. Belg. Annales de la Société Royale zoologique et malacologique de Belgique. Brussels.
Ann. Univ. toscane. Annali delle Università toscane. Pisa.
Anz. k. Akad. Wissensch. Wien. Anzeiger der kaiserlichen Akademie der Wissenschaften. Vienna.
Arch. f. Anthr. & Geol. Schleswig-Holsteins. Archiv für Anthropologie und Geologie Schleswig-Holsteins und der benachbarten Gebiete. Kiel.
Arch. Naturk. Liv- Ehst- u. Kurlands, Dorpat. Archiv für die Naturkunde Liv- Ehst- und Kurlands. Naturforscher-Gesellschaft. Dorpat.
Arch. naturw. Landesd. Böhmen. Archiv der naturwissenschaftlichen Landesdurchforschung von Böhmen. Prague.
Arch. néerland. Sci. Archives des Sciences exactes et naturelles, publiées par la Société hollandaise des Sciences à Harlem. The Hague.
Ark. f. (*Bot.*; *Kemi Min. & Geol.*; or *Zool.*) *K. svenska Vet.-Akad.* Arkiv för Botanik (&c.) utigfvet af K. svenska Vetenskaps-Akademien. Stockholm.
Athenæum. Athenæum Journal. London.
Atti R. Acc. Lincei, Rendic. Atti della Reale Accademia dei Lincei, Rendiconti. Rome.
Atti R. Acc. Sci. Napoli. Atti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
Atti R. Acc. Sci. Padova. Atti e Memorie della Reale Accademia di Scienze, Lettere ed Arti in Padova. Padua.
Atti R. Acc. Sci. Torino. Atti della Reale Accademia delle Scienze di Torino. Turin.
Atti R. Univ. Genova. Atti della Reale Università di Genova. Genoa.
Atti Soc. tosc. Sci. nat. Atti della Società toscana di Scienze naturali. Pisa.
Augustana Library Publ. Augustana Library Publication. Rock Island (Ill.).

Beitr. geol. Schweiz. Beiträge zur Geologie der Schweiz. (Schweizerische geotechnische Kommission.) Bern.
Beitr. Geophys. Leipzig. Beiträge zur Geophysik. Leipzig.
Beitr. naturk. Preussens, K. phys.-ökon. Gesellsch. Königsberg. Beiträge zur naturkunde Preussens. Königliche physikalisch-ökonomische Gesellschaft. Königsberg.
Beitr. Paläont. Œsterr.-Ung. Beiträge zur Paläontologie und Geologie Œsterreich-Ungarns und des Orients. Vienna.
Ber. k.-sächs. Gesellsch. Wissensch. Leipzig. Bericht der königlich-sächsischen Gesellschaft der Wissenschaften. Leipzig.
Ber. naturf. Gesellsch., Freiburg i. B. Berichte der naturforschenden Gesellschaft. Freiburg i. B.
Ber. oberhess. Gesellsch. Nat.-Heilk. Bericht der oberhessischen Gesellschaft für Natur- und Heilkunde. Giessen.
Ber. oberrhein. geol. Ver. Bericht über die Versammlungen des oberrheinischen geologischen Vereins. Stuttgart.
Ber. Senckenb. naturf. Gesellsch. Bericht der Senckenbergischen naturforschenden Gesellschaft. Frankfort-on-the-Main.
Berg- hütt. Jahrb. Wien. Berg- und hüttenmännisches Jahrbuch der kaiserlich-königlichen Bergakademien zu Leoben und Přibram und der königlich-ungarischen Bergakademie zu Schemnitz. Vienna.
Bihang k. svenska Vet.-Akad. Handl. Bihang till kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
Bol. Acad. Nac. Cordoba. Boletin de la Academia Nacional de Ciencias en Cordoba. Buenos Aires.
Bol. Com. Mapa geol. España. Boletin de la Comisión del Mapa geológico de España. Madrid.
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Bol. Soc. geogr. Lima. Boletin de la Sociedad geográfica de Lima. Lima.
Bol. Soc. Geogr. Lisboa. Boletim da Sociedade de Geographia de Lisboa. Lisbon.
Bol. Soc. Nac. Mineria, Santiago. Boletin de la Sociedad Nacional de Minería. Santiago de Chile.
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Bull. Phil. Soc. Wash. Bulletin of the Philosophical Society. Washington (D.C.).
Bull. Soc. belge Géol., Brux. Bulletin de la Société belge de Géologie, de Paléontologie et d'Hydrologie. Brussels.
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Bull. Soc. géol. Norm. Bulletin de la Société géologique de Normandie. Havre.
Bull. Soc. Hist. nat. Toulouse. Bulletin de la Société d'Histoire naturelle de Toulouse. Toulouse.
Bull. Soc. Imp. Nat. Moscou. Bulletin de la Société Impériale des Naturalistes de Moscou. Moscow.
Bull. Soc. Linn. Norm. Bulletin de la Société Linnéenne de Normandie. Caen.
Bull. Soc. oural. Sci. nat. Bulletin de la Société ouralienne d'Amateurs des Sciences naturelles. Ekaterinburg.
Bull. Soc. R. malac. Belg. See *Ann. Soc. R. malac. Belg.*
Bull. Soc. Sci. et méd. de l'Ouest, Rennes. Bulletin de la Société scientifique et médicale de l'Ouest. Rennes.
Bull. Soc. vaud. Sci. nat. Bulletin de la Société vaudoise des Sciences naturelles. Lausanne.
Bull. U.S. Geol. Surv. Bulletin of the United States Geological Survey. Washington.
Bull. Wisc. Geol. & Nat. Hist. Surv. Bulletin of the Wisconsin Geological and Natural History Survey. Madison (Wisc.).
Canad. Rec. Sci. Canadian Record of Science. (Natural History Society of Montreal.) Montreal.
Centralbl. f. Min. Centralblatt für Mineralogie, Geologie und Paläontologie. Stuttgart.
Chem. News. Chemical News. London.
Coll. Guard. Colliery Guardian. London.
Colo. Coll. Studies. Colorado College Studies. Colorado Springs (Colo.).
Com. Mus. Nac. Buenos Aires. Comunicaciones del Museo Nacional de Buenos Aires. Buenos Aires.
Comm. Commiss. Serv. geol. Portugal. Communicacões da Commissão do Servico geologico de Portugal. Lisbon.
Comm. geogr. e geol. S. Paulo. Commissão geographica e geologica de São Paulo. São Paulo.
C. R. Acad. Sci. Paris. Comptes-rendus hebdomadaires des Séances de l'Académie des Sciences. Paris.
C. R. Assoc. franç. Av. Sci. Comptes-rendus de l'Association française pour l'Avancement des Sciences. Paris.
Dan. geol. Undersög. Danmarks geologiska Undersögelse. Copenhagen.
Denkschr. k. Akad. Wissensch. Wien. Denkschriften der kaiserlichen Akademie der Wissenschaften: Mathematisch-naturwissenschaftliche Classe. Vienna.
Eclogæ Geol. Helv. Eclogæ Geologicæ Helvetiæ. Lausanne.
Econ. Papers, U.S. Geol. Surv. Economic Papers, United States Geological Survey. Washington.
Econ. Proc. R. Dublin Soc. Economic Proceedings of the Royal Dublin Society. Dublin.
Erläut. geol. Karte Baden. Erläuterungen zur geologischen Specialkarte des Grossherzogthums Baden. Heidelberg.
Fennia. Fennia. Bulletin de la Société de Géographie de Finlande. Helsingfors.
Field Columbian Mus. Field Columbian Museum Publications. Chicago (Ill.).
Földt. Közl. Földtani Közlöny. [Geological Magazine.] Budapest.
Gen. Rep. Geol. Surv. India. General Report on the Work carried on by the Geological Survey of India. Calcutta.

Geogn. Jahresh., München. Geognostische Jahreshefte. Munich.
Geogr. Journ. Geographical Journal (Royal Geographical Society). London.
Geol. & Nat. Hist. Surv. Minn. Geological and Natural History Survey of Minnesota. St. Paul (Minn.).
Geol. Fören. Stockh. Förh. Geologiska Föreningens i Stockholm Förhandlingar. Stockholm.
Geol. Karte Baden. Geologische Specialkarte des Grossherzogthums Baden. (Grossherzoglich badische geologische Landesanstalt.) Heidelberg.
Geol. Mag. Geological Magazine. London.
Geol. Surv. Canada. Contr. Canad. Palæont. Geological Survey of Canada. Contributions to Canadian Palæontology. Ottawa.
Geol. Surv. Mich. Rep. Geological Survey of Michigan. Reports. Lansing (Mich.).
Geol. Surv. Queensl., Publications. Geological Survey of Queensland: Publications. Brisbane.
Geol. u. Palæont. Abh., Jena. Geologische und Palæontologische Abhandlungen. Jena.
Giorn. Geol. prat., Perugia. Giornale di Geologia pratica. Perugia.
Hist. Berwicks. Nat. Club. History of the Berwickshire Naturalists' Club. Alnwick.
Hull Mus. Publ. Hull Museum Publications. Hull.
Indian Engin. Indian Engineering. Calcutta.
Internat. Cat. Sci. Lit. International Catalogue of Scientific Literature. London.
Iowa Geol. Surv. Iowa Geological Survey. Des Moines.
Irish Nat. Irish Naturalist. Dublin.
Jaarb. Mijnw. Ned. O.-Ind. Jaarboek van het Mijnwezen in Nederlandsch Oost-Indië. Amsterdam.
Jahrb. f. Berg- u. Hüttenw. Sachsen. Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen. Freiburg.
Jahrb. k.-k. geol. Reichsanst. Jahrbuch der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
Jahrb. k.-preuss. geol. Landesanst. Jahrbuch der königlich-preussischen geologischen Landesanstalt. Berlin.
Jahrb. k.-ung. geol. Anst. Jahrbuch der königlich-ungarischen geologischen Anstalt. Budapest.
Jahrb. nassauisch. Ver. f. Naturk. Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden.
Jahrb. Schw.-Alpenclub. Jahrbuch des Schweizer-Alpenclub. Bern.
Jahresb. k.-ung. geol. Anst. Jahresbericht der königlich-ungarischen geologischen Anstalt. Budapest.
Jahresb. Ver. Naturw. Braunschweig. Jahresbericht des Vereins für Naturwissenschaft zu Braunschweig. Brunswick.
Jahresh. Ver. Naturk. Württ. Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart.
Journ. Asiat. Soc. Bengal. Journal and Proceedings of the Asiatic Society of Bengal. Calcutta.
Journ. Bombay Branch R. Asiat. Soc. Journal of the Bombay Branch of the Royal Asiatic Society. Bombay.
Journ. Canad. Mining Inst. Journal of the Canadian Mining Institute. Ottawa.
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Journ. China Branch R. Asiat. Soc. Journal of the China Branch of the Royal Asiatic Society. Shanghai.
Journ. Cinc. Soc. Nat. Hist. Journal of the Cincinnati Society of Natural History. Cincinnati (Ohio).
Journ. Coll. Sci. Tokyo. Journal of the College of Science, Imperial University. Tokyo.
Journ. Conch., Paris. Journal de Conchyliologie. Paris.
Journ. East India Assoc. Journal of the East India Association. London.
Journ. Geol. Chicago. Journal of Geology. Chicago (Ill.).
Journ. Iron & Steel Inst. Journal of the Iron and Steel Institute. London.
Journ. Linn. Soc. Journal of the Linnean Society. London.
Journ. Northants Nat. Hist. Soc. Journal of the Northamptonshire Natural History Society and Field-Club. Northampton.
Journ. R. Agric. Soc. Journal of the Royal Agricultural Society. London.
Journ. R. Inst. Cornwall. Journal of the Royal Institution of Cornwall. Truro.

Journ. R. Micr. Soc. Journal of the Royal Microscopical Society. London.
Journ. Roy. Soc. N.S.W. Journal and Proceedings of the Royal Society of New South Wales. Sydney.
Journ. Soc. Arts. Journal of the Society of Arts. London.
Journ. Vict. Inst. London. Journal of the Transactions of the Victoria Institute. London.
Journ. & Proc. Hamilton Sci. Assoc. (*Canada*). Journal and Proceedings of the Hamilton Scientific Association. Hamilton (Canada).
K. danske Vidensk.-Selsk. Afh. Kongelige danske Videnskabernes-Selskabs naturvidenskablig og mathematisk Afhandlinger. Copenhagen.
K. danske Vidensk. Selsk. Skrift. Kongelige danske Videnskabernes Selskabs Skrifter. Copenhagen.
K. svenska Vet.-Akad. Handl. Kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
Kansas Univ. Quart. Kansas University Quarterly. Bulletin of the University of Kansas. Lawrence (Kan.).
Lond. Edinb. Dubl. Phil. Mag. London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science. London.
Magy. Kir. Földtani Intézet. See *Jahrb. k.-ung. geol. Anst.*
Maryland Geol. Surv. Maryland Geological Survey. Baltimore (Md.).
Matér. Carte géol. Suisse. Matériaux pour la Carte géologique de la Suisse. Commission géologique. Bern.
Mater. Geol. Russ. Materialien zur Geologie Russlands. Herausgegeben von der kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
Meddel. Upsala Univ. Min.-geol. Inst. Meddelanden från Upsala Universitets Mineralogisk-geologiska Institut. Stockholm.
Mém. Acad. Imp. Sci. St. Pétersb. Mémoires de l'Académie Impériale des Sciences. St. Petersburg.
Mém. Acad. Sci. Dijon. Mémoires de l'Académie des Sciences, Arts, et Belles-Lettres de Dijon.
Mém. Acad. Stanislas. Mémoires de l'Académie de Stanislas. Nancy.
Mem. Am. Mus. Nat. Hist., N.Y. Memoirs of the American Museum of Natural History. New York.
Mem. Carta geol. Ital. Memorie descrittive della Carta geologica d'Italia. (R. Ufficio geologico.) Rome.
Mém. Com. géol. Russie. Mémoires du Comité géologique. St. Petersburg.
Mem. Geol. Surv. England & Wales. Memoirs of the Geological Survey of England and Wales. London.
Mem. Geol. Surv. India. Palæont. Indica. Memoirs of the Geological Survey of India. Palæontographica Indica. Calcutta.
Mem. Geol. Surv. Ireland. Memoirs of the Geological Survey of Ireland. Dublin.
Mem. Geol. Surv. N.S.W. Memoirs of the Geological Survey of New South Wales. Sydney.
Mem. Geol. Surv. N.Y. Memoirs of the Geological Survey of the State of New York. State Museum. University of the State of New York. Albany (N.Y.).
Mem. Geol. Surv. Scotland. Memoirs of the Geological Survey of Scotland. Edinburgh.
Mem. Geol. Surv. U.K. Memoirs of the Geological Survey of the United Kingdom. London, Glasgow, &c.
Mem. Geol. Surv. Victoria. Memoirs of the Geological Survey of Victoria. Melbourne.
Mem. Manch. Lit. Phil. Soc. Memoirs and Proceedings of the Manchester Literary and Philosophical Society. Manchester.
Mem. Mus. Comp. Zool. Memoirs of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
Mem. N.Y. Acad. Sci. Memoirs of the New York Academy of Sciences. New York.
Mem. R. Acad. Cienc., Madrid. Memorias de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
Mem. R. Acc. Sci. Torino. Memorie della Reale Accademia delle Scienze. Turin.
Mem. R. Ist. lomb. Memorie del Reale Istituto lombardo di Scienze e Lettere. Milan.
Mem. R. Soc. S. Austr. Memoirs of the Royal Society of South Australia. Adelaide.
Mem. Soc. cient. 'Ant. Alzate.' Memorias y Revista de la Sociedad científica 'Antonio Alzate.' Mexico.
Mém. Soc. géol. France (*Paléont.*). Mémoires de la Société géologique de France. Paléontologie. Paris.

Mém. Soc. Linn. Norm. Mémoires de la Société Linnéenne de Normandie. Caen.
Mém. Soc. Nat. Kiev. Mémoires de la Société des Naturalistes. Kiev.
Mém. Soc. paléont. suisse. Mémoires de la Société paléontologique suisse. Geneva, &c.
Mém. Soc. Phys. & Hist. nat. Genève. Mémoires de la Société de Physique et d'Histoire naturelle de Genève. Geneva.
Mém. Soc. R. malac. Belg. See *Ann. Soc. R. zool. et malac. Belg.*
Mém. Soc. Roy. Sci. Liége. Mémoires de la Société Royale des Sciences. Liége.
Min. Mag. The Mineralogical Magazine and Journal of the Mineralogical Society London.
Min. petr. Mitth. Mineralogische und petrographische Mittheilungen. Vienna.
Mines & Minerals, Scranton. Mines and Minerals. Scranton (Pa.).
Mining Journ. Mining Journal. Railway and Commercial Gazette. London.
Minutes of Proc. Inst. C.E. Minutes of Proceedings of the Institution of Civil Engineers. London.
Missouri Bur. Geol. & Mines. Missouri Bureau of Geology and Mines. Jefferson City (Mo.).
Mitth. badisch. geol. Landesanst. Mittheilungen der grossherzoglich badischen geologischen Landesanstalt. Heidelberg.
Mitth. Erdbeben-Komm. k. Akad. Wissensch., Wien. Mittheilungen der Erdbeben-Kommission der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
Mitth. geol. Landesanst. Elsass-Lothr. Mittheilungen der geologischen Landesanstalt von Elsass-Lothringen. Strasburg.
Mitth. Jahrb. k.-ung. geol. Anst. Mittheilungen aus dem Jahrbuche der königlich-ungarischen geologischen Anstalt. Budapest.
Mitth. Min. Inst. Kiel. Mittheilungen aus dem Mineralogischen Institut der Universität. Kiel.
Mitth. naturf. Gesellsch. Bern. Mittheilungen der naturforschenden Gesellschaft. Bern.
Mitth. nat. Ver. Steiermark. Mittheilungen des naturwissenschaftlichen Vereines für Steiermark. Graz.
Mitth. Ver. Erdk. Dresden. Mittheilungen des Vereins für Erdkunde. Dresden.
Monogr. Palæont. Soc. Monographs of the Palæontographical Society. London.
Monogr. U.S. Geol. Surv. Monographs of the United States Geological Survey. Washington (D.C.).
Naturalist, Leeds. The Naturalist. Leeds & London.
Nature. Nature. London.
N. J. f. Min. Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Stuttgart.
Norsk geol. Tidsskr. Norsk geologisk Tidsskrift, udgivet af Norsk geologisk Forening. Christiania.
Notice expl. Carte géol. Suisse. Notice explicative de la Carte géologique de la Suisse. Berne.
Notizbl. Ver. f. Erdk. Darmstadt. Notizblatt des Vereins für Erdkunde und der grossherzoglichen hessischen geologischen Landesanstalt. Darmstadt.
Nouv. Arch. Mus. Hist. nat. Paris. Nouvelles Archives du Muséum d'Histoire naturelle. Paris.
Nyt Magazin. Nyt Magazin for Naturvidenskaberne. Christiania.
Öfvers. K. Vet.-Akad. Förh. Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar. Stockholm.
Ottawa Nat. Ottawa Naturalist. Ottawa.
Overs. K. danske Vidensk.-Selsk. Forh. Oversigt over det Kongelige danske Videnskabernes-Selskabs Forhandlinger. Copenhagen.
Paläont. Abh. Jena. Paläontologische Abhandlungen. Jena.
Palæontographica. Palæontographica. Stuttgart.
Palæontographica italica. Palæontographica italica. Pisa.
Papers & Proc. Roy. Soc. Tasm. Papers and Proceedings of the Royal Society of Tasmania. Hobart.
Papers & Rep. Min. & Mining, N.Z. Papers and Reports relating to Minerals and Mining, N.Z. Wellington (N.Z.).
Parerg. Inst. geol. Mex. Parergones del Instituto geológico de Mexico. Mexico.
Peterm. Mitth. Petermann's Mittheilungen. Gotha.
Phil. Trans. Roy. Soc. Philosophical Transactions of the Royal Society. London.
Photogr. Journ. Photographic Journal. (Royal Photographic Society.) London.
Princeton Univ. Rep. Princeton University. Reports of Expeditions. Princeton (N.J.).

Proc. Acad. Nat. Sci. Philad. Proceedings of the Academy of Natural Sciences. Philadelphia (Pa.).
Proc. Am. Acad. Arts & Sci. Proceedings of the American Academy of Arts and Sciences. Boston (Mass.).
Proc. Am. Phil. Soc. Proceedings of the American Philosophical Society. Philadelphia (Pa.).
Proc. Asiatic Soc. Bengal. Proceedings of the Asiatic Society of Bengal. Calcutta.
Proc. Austr. Inst. M. E. Proceedings of the Australasian Institute of Mining Engineers. Melbourne (Vict.).
Proc. Bath Nat. Hist. F. C. Proceedings of the Bath Natural History and Antiquarian Field-Club. Bath.
Proc. Belfast Nat. F. C. Proceedings of the Belfast Naturalists' Field-Club. Belfast.
Proc. Biol. Soc. Washington. Proceedings of the Biological Society of Washington. Washington (D.C.).
Proc. Boston Soc. Nat. Hist. Proceedings of the Boston Society of Natural History. Boston (Mass.).
Proc. Bristol Nat. Soc. Proceedings of the Bristol Naturalists' Society. Bristol.
Proc. Cambridge Phil. Soc. Proceedings of the Cambridge Philosophical Society. Cambridge.
Proc. Canad. Inst. Proceedings of the Canadian Institute. Toronto.
Proc. Chem. Soc. Proceedings of the Chemical Society. London.
Proc. Colo. Sci. Soc. Proceedings of the Colorado Scientific Society. Denver (Colo.).
Proc. Cotteswold Nat. F. C. Proceedings of the Cotteswold Naturalists' Field-Club. Gloucester.
Proc. Davenport Acad. Nat. Sci. Proceedings of the Davenport Academy of Natural Science. Davenport (Iowa).
Proc. Dorset Nat. Hist. F. C. Proceedings of the Dorset Natural History and Antiquarian Field-Club. Dorchester.
Proc. Geol. Assoc. Proceedings of the Geologists' Association. London.
Proc. Geol. Soc. S. A. Proceedings of the Geological Society of South Africa. Johannesburg.
Proc. Indiana Acad. Sci. Proceedings of the Indiana Academy of Sciences. Indianapolis.
Proc. Linn. Soc. Proceedings of the Linnean Society. London.
Proc. Linn. Soc. N.S.W. Proceedings of the Linnean Society of New South Wales. Sydney.
Proc. Lit. Phil. Soc. Liverp. Proceedings of the Literary and Philosophical Society of Liverpool. Liverpool.
Proc. Malacol. Soc. Proceedings of the Malacological Society. London.
Proc. Midland Inst. M. E. Proceedings of the Midland Institute of Mining, Civil, and Mechanical Engineers. Newcastle-upon-Tyne.
Proc. Nat. Mus. U.S.A. Proceedings of the National Museum. Washington (D.C.).
Proc. Rhodesia Sci. Assoc. Proceedings of the Rhodesia Scientific Association. Bulawayo.
Proc. Roy. Inst. Gt. B. Proceedings of the Royal Institution of Great Britain. London.
Proc. Roy. Irish Acad. Proceedings of the Royal Irish Academy. Dublin.
Proc. R. Phys. Soc. Edinb. Proceedings of the Royal Physical Society of Edinburgh. Edinburgh.
Proc. Roy. Soc. Proceedings of the Royal Society. London.
Proc. Roy. Soc. Edinb. Proceedings of the Royal Society of Edinburgh. Edinburgh.
Proc. Roy. Soc. Tasm. Proceedings of the Royal Society of Tasmania. Hobart. See *Papers & Proc.*
Proc. Roy. Soc. Victoria. Proceedings of the Royal Society of Victoria. Melbourne.
Proc. Soc. Bibl. Arch. Proceedings of the Society of Biblical Archæology. London.
Proc. S. Wales Inst. Engin. Proceedings of the South Wales Institute of Engineers. Cardiff.
Proc. Univ. Durham Phil. Soc. Proceedings of the University of Durham Philosophical Society. Newcastle-upon-Tyne.
Proc.-verb. Soc. R. malac. Belg. Procès-verbaux des Séances de la Société Royale malacologique de Belgique. Brussels.
Proc. Wash. Acad. Sci. Proceedings of the Washington Academy of Sciences. Washington (D.C.).

Proc. Yorks. Geol. Soc. Proceedings of the Yorkshire Geological and Polytechnic Society. Halifax.
Proc. Zool. Soc. London. Proceedings of the Zoological Society. London.
Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc. Proceedings and Transactions of the Croydon Microscopical and Natural History Society. Croydon.
Proc. & Trans. N.S. Inst. Sci. Proceedings and Transactions of the Nova Scotia Institute of Science. Halifax (N.S.).
Proc. & Trans. Roy. Soc. Canada. Proceedings and Transactions of the Royal Society of Canada. Ottawa.
Prof. Papers, U.S. Geol. Surv. Professional Papers, United States Geological Survey. Washington.
Publ. Carnegie Mus. Publications of the Carnegie Museum. Pittsburg (Pa.).
Publ. Earthq. Comm. Tokyo. Publications of the Earthquake Investigations Committee in Foreign Languages. Tokyo.
Q. J. G. S. Quarterly Journal of the Geological Society. London.
Q. J. R. Met. Soc. Quarterly Journal of the Royal Meteorological Society. London.
Quarry. The Quarry. London.
Rec. Geol. Surv. India. Records of the Geological Survey of India. Calcutta.
Rec. Geol. Surv. Victoria. Records of the Geological Survey of Victoria. Melbourne.
Rec. London & W. Country Chamber of Mines. Record of the London and West Country Chamber of Mines. London.
Rendic. e Mem. R. Acc. Sci. Acireale. Rendiconti e Memorie della Reale Accademia di Scienze, Lettere ed Arti. Acireale.
Rendic. R. Acc. Sci. Napoli. Rendiconti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
Rendic. R. Ist. lomb. Reale Istituto lombardo di Scienze e Lettere. Rendiconti. Milan.
Rep. & Proc. Belfast Nat. Hist. Soc. Report and Proceedings of the Belfast Natural History and Philosophical Society. Belfast.
Rep. & Trans. Devon. Assoc. Adv. Sci. See *Trans.*
Rep. Austral. Assoc. Adv. Sci. Report of the Australasian Association for the Advancement of Science. Sydney.
Rep. Brit. Assoc. Report of the British Association for the Advancement of Science. London.
Rep. Brit. S. Africa Co. Report of the British South Africa Company. London.
Rep. Bureau Mines, Canad. Report of the Bureau of Mines, Canada. Ottawa.
Rep. Croydon Microsc. Club. See *Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc.*
Rep. Dep. Mines N.S. Report of the Department of Mines, Nova Scotia. Halifax (N.S.).
Rep. Dep. Mines, Tasm. Report of the Secretary of the Department of Mines. Hobart.
Rep. Dep. Mines, W. Austr. Report of the Department of Mines, Western Australia. Perth (W. Austr.).
Rep. Geol. Surv. Louisiana. Report of the Geological Survey of Louisiana. Bâton Rouge (La.).
Rep. Geol. Surv. Transvaal. See *Transvaal Mines Dep., Rep. Geol. Surv.*
Rep. Inst. Mines & Forests Brit. Guiana. Report of the Council of the Institute of Mines and Forests on the Gold and Forest-Industries of British Guiana. Georgetown (Demerara).
Rep. Leicester Mus. Report of the Committee to the Town Council, Leicester Corporation Museum and Art Gallery. Leicester.
Rep. Rugby School Nat. Hist. Soc. Report of the Rugby School Natural History Society. Rugby.
Rep. S. A. Assoc. Adv. Sci. Report of the South African Association for the Advancement of Science. Cape Town.
Rep. S.E. Union Sci. Soc. See *Trans. S.E. Union Sci. Soc.*
Rep. U.S. Dep. Agric. Report of the United States Department of Agriculture. Washington (D.C.).
Rep. Univ. Geol. Surv. Kansas. Reports of the University Geological Survey of Kansas. Topeka (Kan.).
Rev. Cienc., Lima. Revista de Ciencias. Lima.
Rev. critique de Paléozool. Revue critique de Paléozoologie. Paris.
Rev. Inst. geogr. & hist. Bahia. Revista trimensal do Instituto geographico e historico da Bahia. Bahia.
Rev. Minas, Santiago. Revista de Minas. Santiago de Chile.

Rev. R. Acad. Cienc. Madrid. Revista de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
Rev. Sci. Paris. Revue Scientifique. Paris.
Rev. Soc. sci. São Paulo. Revista da Sociedade scientifica de São Paulo. São Paulo.
Riv. ital. Paleont., Perugia. Rivista italiana di Paleontologia, Perugia (*late* Bologna, Parma).
Riv. Min. e Crist. ital. Padova. Rivista di Mineralogia e Cristallografia italiana. Padua.
Rochester Nat. Rochester Naturalist. Rochester.
Rozpr. Akad. Umiej. Krakow. Rozprawy Akademii Umiejetnocśi Wydzial matematyczno-przyrodniczy. Cracow.
Samml. geol. R.-Mus. Leiden. Sammlungen des geologischen Reichs-Museums in Leiden. Leyden.
Schr. Gesellsch. Naturw. Marburg. Schriften der Gesellschaft zur Beförderung der gesammten Naturwissenschaften zu Marburg. Marburg.
Schr. physik.-ökonom. Gesellsch. Königsb. Schriften der physikalisch-ökonomischen Gesellschaft. Königsberg in Pr.
Sci. Proc. R. Dublin Soc. Scientific Proceedings of the Royal Dublin Society. Dublin.
Sci. Trans. R. Dublin. Soc. Scientific Transactions of the Royal Dublin Society. Dublin.
Science. Science. New York.
Scot. Geogr. Mag. Scottish Geographical Magazine. (Royal Scottish Geographical Society.) Edinburgh.
Sitz. Gesellsch. naturf. Freunde, Berlin. Sitzungsberichte der Gesellschaft naturforschender Freunde. Berlin.
Sitz. k. Akad. Wissensch. Wien. Sitzungsberichte der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
Sitz. k.-bayr. Akad. Sitzungsberichte der mathematisch-physikalischen Classe der königlich-bayerischen Akademie der Wissenschaften. Munich.
Sitz. k.-preuss. Akad. Wissensch. Berlin. Sitzungsberichte der königlich-preussischen Akademie der Wissenschaften. Berlin.
Sitz. Naturf.-Gesellsch. Dorpat. Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.
Sitz. niederrhein. Gesellsch. Nat. &c., Bonn. Sitzungsberichte der niederrheinischen Gesellschaft für Natur- und Heilkunde zu Bonn. Bonn. See *Verh. naturh. Ver. preuss. Rheinl.*
Sitz. u. Abh. Gesellsch. 'Isis.' Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft 'Isis' in Dresden. Dresden.
Smiths. Miscell. Coll. Smithsonian Miscellaneous Collections. Washington (D.C.).
Soc. 'Ger. Guidoni,' Spezia. Società 'Gerolamo Guidoni' per la Diffusione e l'Incremento degli Studi naturali. Spezia.
Spelunca. 'Spelunca.' Bulletin de la Société de Spéléologie. Paris.
Summ. Progr. Geol. Surv. U.K. Summary of Progress of the Geological Survey of the United Kingdom. London.
Summ. Rep. Geol. Surv. Canada. Summary Report of the Geological Survey of Canada. Ottawa.
Sver. geol. Undersökn., Afd. Sveriges geologiska Undersökning, Afhandlingar. Stockholm.
Tasm. Dep. Mines. Tasmania. Department of Mines. Hobart.
Trans. Am. Inst. M.E. Transactions of the American Institute of Mining Engineers. New York.
Trans. Am. Phil. Soc. Transactions of the American Philosophical Society. Philadelphia (Pa).
Trans. Austr. Inst. M.E. Transactions of the Australasian Institute of Mining Engineers. Melbourne & Sydney.
Trans. Brit. Assoc. Waterw. Eng. Transactions of the British Association of Waterworks Engineers. London.
Trans. Canad. Inst. Transactions of the Canadian Institute. Toronto.
Trans. Connect. Acad. Transactions of the Connecticut Academy of Arts and Sciences. New Haven (Conn.).
Trans. Croydon Nat. Hist. Soc. See *Proc. & Trans.*
Trans. Cumberland Assoc. Transactions of the Cumberland Association. Carlisle.
Trans. Devon. Assoc. Transactions of the Devonshire Association for the Advancement of Science. Plymouth.

Trans. Edinb. Geol. Soc. Transactions of the Edinburgh Geological Society. Edinburgh.
Trans. Geol. Soc. Glasgow. Transactions of the Geological Society of Glasgow. Glasgow.
Trans. Geol. Soc. S.A. Transactions of the Geological Society of South Africa. Johannesburg.
Trans. Herts Nat. Hist. Soc. Transactions of the Hertfordshire Natural History Society and Field-Club. Hertford.
Trans. Hist. & Sci. Soc. Manitoba. Transactions of the Historical and Scientific Society of Manitoba. Winnipeg.
Trans. Hull Geol. Soc. Transactions of the Hull Geological Society. Hull.
Trans. Hull Sci. & F. Nat. Club. Transactions of the Hull Scientific and Field Naturalists' Club. Hull.
Trans. Inst. Mining & Metall. Transactions of the Institution of Mining and Metallurgy. London.
Trans. Inst. M.E. Transactions of the Institution of Mining Engineers. Newcastle-upon-Tyne.
Trans. Kansas Acad. Sci. Transactions of the Kansas Academy of Science. Topeka (Kan.).
Trans. Leicester Lit. & Phil. Soc. Transactions of the Leicester Literary and Philosophical Society. Leicester.
Trans. Linn. Soc. Transactions of the Linnean Society. London.
Trans. Manch. Geol. Soc. Transactions of the Manchester Geological and Mining Society. Manchester.
Trans. N. Engl. Inst. Min. & Mech. Eng. Transactions of the North of England Institute of Mining and Mechanical Engineers. Newcastle-upon-Tyne.
Trans. N.Z. Inst. Transactions and Proceedings of the New Zealand Institute. Wellington (N.Z.).
Trans. N.Z. Inst. M.E. Transactions of the New Zealand Institute of Mining Engineers. Auckland (N.Z.).
Trans. Perth. Soc. Nat. Sci. Transactions and Proceedings of the Perthshire Society of Natural Science. Perth.
Trans. R. Geol. Soc. Cornwall. Transactions of the Royal Geological Society of Cornwall. Penzance.
Trans. Roy. Irish Acad. Transactions of the Royal Irish Academy. Dublin.
Trans. Roy. Soc. Canada. See *Proc. & Trans. Roy. Soc. Canada.*
Trans. Roy. Soc. Edinb. Transactions of the Royal Society of Edinburgh. Edinburgh.
Trans. Roy. Soc. S. Austr. Transactions of the Royal Society of South Australia. Adelaide.
Trans. S.A. Phil. Soc. Transactions of the South African Philosophical Society. Cape Town.
Trans. S.E. Union Sci. Soc. Transactions of the South-Eastern Union of Scientific Societies. London.
Trans. Woolhope Nat. F.C. Transactions of the Woolhope Naturalists' Field-Club. Hereford.
Trans. Zool. Soc. Lond. Transactions of the Zoological Society. London.
Transvaal Mines Dep., Rep. Geol. Surv. Transvaal Mines Department. Report of the Geological Survey. Pretoria.
Trav. Soc. Imp. Nat. St. Petersb. Travaux de la Société Impériale des Naturalistes. St. Petersburg.
Tufts Coll. Studies. Tufts College Studies. Tufts College (Mass.).
Verh. deutsch. wissensch. Ver. Santiago. Verhandlungen des deutschen wissenschaftlichen Vereins zu Santiago de Chile. Valparaiso.
Verh. k.-k. geol. Reichsanst. Verhandlungen der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
Verh. k.-k. zool.-bot. Gesellsch. Wien. Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien. Vienna.
Verh. naturf. Gesellsch. Basel. Verhandlungen der naturforschenden Gesellschaft. Basel.
Verh. naturh. Ver. preuss. Rheinl. Verhandlungen des naturhistorischen Vereins der preussischen Rheinlande, Westfalens und des Regierungs-Bezirks Osnabrück. Bonn.
Verh. russ.-k. min. Gesellsch. Verhandlungen der russisch-kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
Vidensk. Meddel. naturh. Foren. Kjöbenhavn. Videnskabelige Meddelelser fra den naturhistoriske Forening i Kjöbenhavn. Copenhagen.

Water. Water. London.
Water-Supply Papers, U.S. Geol. Surv. Water-Supply Papers, United States Geological Survey. Washington.
Zapisn. srpsk. geol. Drush. Zapisnitzi srpskog geoloshkog Drŭshtva. (Sitzungsberichte der serbisch-geologischen Gesellschaft.) Belgrade.
Zeitschr. deutsch. geol. Gesellsch. Zeitschrift der deutschen geologischen Gesellschaft. Berlin.
Zeitschr. f. Berg-, Hütt.- u. Salinenw. Zeitschrift für das Berg-, Hütten- und Salinenwesen im preussischen Staate. Berlin.
Zeitschr. f. Kryst. Zeitschrift für Krystallographie und Mineralogie. Leipzig.
Zeitschr. f. Naturw. Sachsen. Zeitschrift für Naturwissenschaften. Organ des naturwissenschaftlichen Vereins für Sachsen und Thüringen. Stuttgart.
Zeitschr. f. prakt. Geol. Zeitschrift für praktische Geologie. Berlin.
Zool. Rec. Zoological Record. Record of Zoological Literature. London.

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Ataphrus.—Blake, J. F., 2.
Atchison Co. (Kan.).—Kneer, E. B.
Ateleaspis.—Traquair, R. H., 6.
Atlantic Ocean (N.), cable-soundings.—Anon., 30; submarine valleys.—Spencer, J. W., 5.
—— —— (S.), volcanic islands. — Schwarz, E. H. L.
Atlantosaurus-beds, Colorado.—Williston, S. W., 2.
Atlas Mts. (Morocco).—Gentil, L.; Lemoine, P., 2; Savornin, J., 2.
Atlin (B.C.).—Robertson, W. F.

Atmosphere, abstraction by iron of oxygen from.—Smyth, C. J., Jun., 3; geological history of the.—Stevenson, J.
Atmospheric erosion. *See* Erosion, &c.
Atomic weights.—Wetherell, E. W.
Atopite.—Hussak, E., 2.
Atractites.—Martelli, A.
Atrina.—Clark, W. B.
Aubrey Formation, Arizona.—Reagan, A. B., 3; Limestone, Rocky Mts.—Reagan, A. B., 2.
Auburn (N.Y.).—Hartnagel, C. A.
Aucella & Aucellina.—Woods, H.
Auckland (N.Z.).—Sollas, W. J., 2.
Aue (Saxony).—Stutzer, O.
Augite.—Luczizki, V.; *see also* Felspar.
Aulacocidaris.—Loriol, P. de, 2.
Auriferous conglomerates. *See* Banket.
—— gravels, Yukon.—Obalski, T.
Australia (S.). *See* South Australia.
—— (W.). *See* Western Australia.
Austria. *See* Galicia, Moravia, &c.
Austria (Lower).—Sigmund, A., 2 & 3; Vetters, H.; *see also* Vienna Basin.
—— (Upper).—Mojsisovics, E. von, 2.
Autophytography.—White, C. H.
Autunite. *See* Calco-uranite.
Auxerre (Yonne).—Lemoine, P., 6.
Avezzano (Abruzzi).—Cassetti, M.
Avicula.—Bœhm, J.; Dacqué, E., 2.
Aviculopecten.—Bœhm, J.
Avon R. (Somerset, &c.).—Oriel, B.
Awaruite.—Jamieson, G. S.
Axes, crystalline.—Becke, F., 4; Luczizki, W.; Wright, F. E.
Axophyllum.—Vaughan, A.
Aymestry (Hereford).—Herries, R. S., 2.
Ayrshire.—Smith, J., 1–5.
Azurite.—Cesàro, G., 2; Hobbs, W. H., 3.

Baccano, Lake (Rome).—Clerici, E., 1 & 6.
Bach Mts. (Styria).—Dreger, J.
Bactrites.—Loomis, F. B.
Baden (Germany).—Eisele, H.; Regelmann, C.; Schnarrenberger, K., 1 & 2; Thuerach, H., 1 & 2; Wilckens, O., 2.
Badger Head (Tasm.).—Twelvetrees, W. H.
Baffin Land (Arctic).—Emerson, B. K.
Bagnères de Bigorre (Hautes-Pyrénées).—Carez, L.; Mascart, —.
Bagnes, Val de (Valais).—Rabot, C.
Bagshot Beds.—Fisher, O., 2.
Baiera.—Seward, A. C.
Baikal, Lake (Siberia).—Ochsenius, C., 2.
Bairdia.—Chapman, F., 3; Lienenklaus, E.
Baker, M. *Obit.*—*See* Dall, W. H.
Bakerville (B.C.).—Atkin, A. J. R., 2.
Bakony Mts. (Hungary).—Prinz, G., 2; Staff, H. von.
Baku (Caucasus).—Andrusov, N. E.; Goloobyatnikov, D. V., 1 & 2; Trevithick, J. H.
Balancea (Rumania).—Nicolau, T.
Balanophyllia.—Dennant, J.
Balanus.—Woodward, H., 3.
Balaton Lake (Hungary).—Staff, H. von; Vitalis, S.
Bálincz (Hungary).—Kadic, O.
Balistes.—Bassani, F., 3.
Balkan Mts. (Turkey).—Douvillé, H., 6; Launay, L. de; Zeiller, R.
Ballyfin Bog (Ireland).—Adams, J.
Balmhorn massif (Valais).—Lugeon, M., 2.
Balmoral (Transvaal).—Mellor, E. T., 8.
Baltic glaciation.—Jentzsch, A.; Keilhack, K., 2; Maas, G.; Négris, P.
——, Quaternary history of the.—Deecke, W., 3; Howorth, Sir H. H., 3.
——, southern sandbanks of the.—Deecke, W., 5; Schellwien, E.
——. *See also* Pomerania, &c.
Baltic Provinces (Russia).—Brueckmann, R.; Doss, B.
Baluchistan (India).—Burrows, H. W.; Newton, R. B., 3; Woodward, H., 3.
Balve (Westphalia).—Beyschlag, F.
Banaba I. (S. Pacific).—Power, F. D.
Banbury (Oxon).—Walford, E. A., 2.
Banket, Rhodesia.—Mennell, F. P., 3 & 4.
Baptanodon.—Merriam, J. C., 4.
——-beds, Colorado.—Williston, S. W., 2.
Baraboo (Wisc.).—Weidman, S.
Barberino di Mugello (Prov. of Florence).—Pasquale, M., 2.
Barcelona (Catalonia).—Almera, J.; Neviani, A., 2.
Barillopus.—Matthew, G. F., 2.
Barinophyton.—Smith, G. O.
Barissan Mts. (Sumatra).—Tobler, A.
Barkly East (Cape Colony).—Du Toit, A. L.
Barley (Devon).—Rowe, J. B.
Barnsley (Yorks).—Davison, C., 2.
Baropezia.—Matthew, G., 2.
Barremian, Gard.—Lambert, J.; Sayn, G.
——, Oran.—Gentil, L., 2.
Barris, W. H. *Obit.*—*See* Hammatt, E. S.
Barrow (Leicester).—Roechling, H. A.
Barry (Glamorgan).—Richardson, L., 3.
Bartin (Pomerania).—Hucke, K.
Bartonian, Languedoc.—Stehlin, H. G., 3.
Barycrinus.—Whitfield, R. P., 2.
Baryhelia.—Koby, F.
Barylite.—Tacconi, E., 2.
Baryphyllia.—Koby, F.
Barytes.—Artemiev, D. N.: Ball, S. H.; Day, D. T.; Hobbs, W. H., 3.
Basalt, Antarctic.—Nordenskjœld, O.; Scott, R. F.
——, Arizona.—Guild, F. N., 2.
——, Baden.—Wilckens, O., 2.
——, Bohemia.—Cornu, F., 2; Fœrster B.; Graber, H. V., 2.
——, Borneo.—Easton, N. W.

Basalt, Columbia (District of).—Piper, C. V.
——, Germany.—Chelius, C., 3; Gaiser, E.; Hornung, F.; Schauf, F.; Schottler, W., 1 & 2; Schwarz, H.; Wysogórski, J., 3.
——, Hebrides Tertiary.—Stracey, B.
——, Hungary.—Vitalis, S.
——, Mangareva & Pitcairn Is.—Lévy, Aug. M., 2.
——, New Mexico.—Brady, F. W., 2.
——, New South Wales.—Mingaye, J. C. H.; Morrison, M.
——, Pembrokeshire.—Elsden, J. V., 2.
——, Sahara.—Foureau, F.
——, Somaliland, &c.—Arsandaux, H., 1–3.
——, Styria.—Sigmund, A.
——, Tahiti.—Lacroix, A., 3.
——, Tasmanian melilite.—Twelvetrees, W. H., 5.
——, Transvaal.—Rand, R. F.
——, Tripoli.—Manasse, E.
——, Vogelgebirge. — Kœbrich, —; Schwantke, A.
——, Washington (U.S.A.).—Calkins, F. C.
——, Weitendorf.—Hilber, V.
Basaltic Is., S. Atlantic.—Schwarz, E. H. L., 6.
Basilicata (Italy). — Bassani, F., 5; Lorenzo, G. de, 1, 2, & 8.
Basilicus.—Schmidt, F. von.
Basin Ranges, New Mexico.—Keyes, C. R., 4.
Basingstoke (Hants).—Bennett, F. J., 2.
Bassania.—Gasparis, A. de.
Bassano (Venetia).—Taramelli, T., 4.
Basses-Alpes (France).—Lévy, Aug. M., 4.
Bastille, Montagne de la (Dauphiné).—Kilian, W.
Bathonian, Besançon.—Deprat, J., 3.
——. *See also* Jurassic.
Bathyactis.—Dennant, J.
Bathygnathus.—Case, E. C., 2.
Batoka Gorge (Zambesi R.).—Lamplugh, G. W., 1 & 2.
Batrachia, Tertiary.—Stefano G. de.
——, Triassic.—Branson, E. B., 2.
Batrachian footprints, Carboniferous.—Matthew, G. F., 2.
Bauxite, Georgia.—Watson, T. L.
——, India.—Holland, T. H., 3.
——, United States.—Day, D. T.
——, Vogelgebirge.—Kœbrich, —.
Bavaria.—Ammon, L. von, 1 & 2; Bærtling, R.; Fink, W., 1 & 2; Glungler, G.; Kohler, E., 2; Kranz, W.; Reindl, J., 1–3; Stromer, E.; *see also* Mineral waters, &c.
Beach-sands, Queensland.—Ball, L. C.
Bear I. (Barents Sea).—Bœhm, J., 1 & 3.
Bear, Cave, Dordogne.—Capitan, L., 4.
Beaufort Beds.—Rogers, A. W., 4.
Beaulieu, Bois de (Boulonnais).—Mourlon, M.
Bechar, Djebel (Oran).—Thévenin, A.
Bechuanaland (S.A.).—Holmes, G. G.; Passarge, S.
Beckelite.—Morozevich, I., 1 & 3.
Becraft Mt. (N.Y.).—Grabau, A. W.
Bedford.—Woodward, H. B., 5 & 6.
Bedfordshire.—Hopkinson, J., 1 & 2; Lamplugh, G. W., 3.
Beecher, C. E. *Obit.*—*See* Bather, F. A., 5.
Bega R. (Hungary).—Kadić, O.
Belemnites.—Blake, J. F.; Clerc, M.; Pavlov, A. P.; Vetters, H.
—— *-mucronata* Chalk, microscopic plants in.—Reinsch, P. F.
Belemnites, Cretaceous. — Lankester, E. R.
——, Jurassic.—Benecke, E. W.; Lugeon, M.
Belgium, dislocations in strata. — Dewalque G., 3; *see also* Brabant, Tertiary, &c.
Belknap Mts. (New Hampshire).—Pirsson, L. V., 3.
Bellenberg volcano (Rh.-Pruss.).—Gaubert, P., 6.
Belliazzi (I. of Ischia).—Oglialoro-Todaro, A.
Bembexia.—Donald, (Miss) J., 2.
Bena di Padru (Sardinia).—Lovisato, D.
Bendigo, Little (Vict.).—Bradford, W., 2.
Bengal (India).—Stonier, G. A., 2.
Beni R. (Bolivia).—Evans, J. W., 9.
Benkovac (Dalmatia).—Schubert, R. J., 6.
Bennettites.—Lignier, O.
Benoist, A. E., *Obit.*—*See* Degrange-Touzin, A., 2.
Berbachite, Urals.—Duparc, L., 4.
Berchtesgaden (Bavaria).—Kohler, E., 2.
Bereg Komitat (Hungary).—Posewitz, J.
Berehaven (Co. Cork).—Blenkinsop, G. H.
Berenicia.—Dacqué, E., 2.
Bering R. (Alaska).—Brooks, A. H., 2; Martin, G. C.
Berkshire.—Bennett, F. J.; Davey, E. C.; Lamplugh, G. W., 4; Monckton, H. W., 3; Salter, A. E.; Treacher, L.; Walker, H.; Wright, J.
Bermuda Banks (Atlantic).—Biglow, H. B.
Berne (Switzerland).—Juillerat, E.; Lugeon, M., 2; Rollier, L., 1–3 & 7; Studer, T.; Tièche, M.
Bernese Jura (Switzerland). — Æberhardt, B.; Fleury, E., 2; *see also* Jura, Swiss.
Berrow Hill (Gloucester).—Richardson, L., 4.
Berwickshire.—Goodchild, J. G., 4.
Berwyn Hills (Wales).—Watts, W. W.
Berycidarum.—Schubert, R. J., 3.
Beryl.—Coomáraswámy, A. K., 4; Lincio, G.; Pollok, J. H.
Beryllium.—Wetherell, E. W., 2.
Besançon (Dauphiné).—Deprat, J., 3.
Betulites.—Stanton, T. W.
Beuthen (Silesia).—Michael, R.

Beyrichia, Devonian.—Loomis, F. B.; Thomas, I.
Beyrichona.—Wiman, C., 2.
Biarritz (Basses-Pyrénées).—Boussac, J.
Biber Valley (Schaffhausen).—Meister, J.
'Bibliographia Geologica.'— Margerie, E. de, 2.
Bibo.—Meunier, F.
Bieberwier (Tyrol).—Rose, —.
Biel, Lake. *See* Bienne, Lake.
Bielefeld (Westphalia).—Meyer, E.
Bielev (Tula Gov.).—Tchirvinski, P. N.
Biella (Piedmont).—Zamboni, F., 2.
Bieltz collection of mollusca.—Horusitzky, H., 2.
Bienne, Lake (Berne).—Antenen, E.; Rollier, L., 3 & 7.
Big Bend District (B.C.).—Carmichael, H.
Big Blackfoot Valley (Mont.).—Winchell, N. H.
Bihar Mts. (Hungary).—Szádeczki, J. von.
Billingen (Gothland).—Munthe, H., 4.
Billings (Mo.).—Ward, H. A.
Bilma (Sudan).—Courtet, H., 2.
Bilobites-like concretions.—Deecke, W., 2.
Biloculina.—Wójcik, K.
Bima (Congo Free State).—Preumont, G. F. J.
Bimicroporella.—Canu, F.
Bingham Cañon (Utah).—Boutwell, J.M.
Binn Valley (Valais).—Millosevich, F.; Solly, R. H.
Biotite-diorite, California.—Osmont, V. C.
Biradiolites.—Douvillé, H.; Morgan, J. de, 2.
Birds, Cretaceous.—Stanton, T. W.
——, fossil.—Lankester, E. R.; Wiman, C., 4.
——, Quaternary.—Nehring, A.
Birkenau (Hesse).—Klemm, G., 7.
Birmingham (Ala.).—Crane, W. R.
Bisbee (Arizona).—Ransome, F. L.
Bischoff, Mount (Tasm.).—Fawns, S., 1 & 2.
Bishop's Stortford (Herts).—Irving, A., 3.
Bishpool & Bishton (Mon.).—Richardson, L., 2.
Bislich (Rh.-Pruss.).—Schulz-Brisen, B.
Bismuth, Venetia.—Piutti, A., 2.
—— -silver-gangue, Erzgebirge.— Viebig, W.
Bismuthite.—Headden, W. P., 2.
Bitchu (Japan).—Yokoyama, M.
Bittium.—Blake, J. F., 2.
Bitumen, origin of.—Morgan, W. C.
Bituminous limestone. *See* Sapropel.
—— rocks, temperatures of borings in.—Branco, W., 2; Stremme, H.
—— sand, Heppenheim.—Steuer, A.
—— schists, Salerno Triassic.—Bassani, F., 4.
Björneborg (Örebro).—Blomberg, A.
Black Hill (Berwickshire).—Goodchild, J. G., 4.
Blackheath (Kent).—Salter, A. E., 4.
Blackheath (Surrey).—Herries, R. S.
Black-Reef Series, Transvaal.—Kynaston, H., 3 & 6.
Blackened rocks, desert.—Blake, W. P., 2; Lucas, A.
Blair Atholl (Perth.).—Barrow, G.; Horne, J.
Blairmore (Alberta).—Jacobs, E.
Blanc, Mont (Savoy).—Whymper, E.
Blandy, J. F. *Obit*.—*See* Raymond, R. W.
Blanford, W. T.— *Biography*. *See* Anon., 1; *Obit*.—*See* Anon., 2; & Geikie, Sir A., 3.
Blastosmilia.—Koby, F.
Blauen Mt. (Swiss Jura).—Jenny, F.
Blea Wyke Point (Yorks).—Rastall, R.H.
Blende, France.—Lodin, A.
——, Sardinia.—Rimatori, C.
——, Valais.—Solly, R. H.
Blocks, classification by size.—Atterberg, A., 1 & 2.
——, erratic, Alps (W.).—Sandberg, C. G. S.; *see also* Erratic.
Blue Mt. (Ont.).—Bell, R.
'Bluestone,' New York.—Dickinson, H. T.
Bœckia.—Wiman, C., 3.
Bogs, Holstein.—Wolff, W., 2.
——, Scotland.—Smith, W. G.
——, Sweden.—Sundbærg, G.
——. *See also* Peat.
Bohemia.—Broili, F., 2; Fœrster, B.; Fritsch, A., 2; Hinterlechner, K.; Hibsch, J. E., 1–3; Hœfer, H., 2; Jahn, J. J., 1 & 2; Katzer, F., 1 & 2; Klvaňa, J.; Liebus, A.; Petrascheck, W., 2–5; Richter, K.; Schmidt, A., 2; Stěp, J.; Tietze, E.; Wohnig, K.; Woldřich, J. N.; Želízko, J. V., 1 & 2; Zimmermann, R.
Böhm.-Leipa. *See* Leipa.
Böhmerwald (Bohemia).—Reindl, J., 2; Woldřich, J. N.
Bois-Borsu (Liége).—Destinez, P.
Bokkeveld Beds.—Rogers, A. W., 4.
Bolca, Monte (Venetia).—Janensch, W.
Bolchov (Orel Gov.).—Tchirvinski, P. N.
Bolivia (S. Am.).—Bradley, D. H., Jun.; Evans, J. W., 9; Hœk, H.; Lœnnberg, E.; Pompeckj, J. F.; Roberts, M.; Tight, W. G.
Boljevici (Montenegro).—Martelli, A.
Bologna (Emilia).—Roccati, A., 2.
'Bolson-plains,' New Mexico.—Passarge, S., 2; Tight, W. G., 3.
Bom R. (Siberia).—Rippas, P.
Bombay (India).—Warth, H.
Bone-bed, Bohemian Cretaceous.—Petrascheck, W., 2.
——, —— Triassic.—Jahn, J. J., 2.
Bone-beds, Fayum.—Beadnell, H. J. L., 2.
——, Rhætic.—Wickes, W. H.

Bone-bludgeon, Suffolk Crag. — Fisher, O., 3.
—— cave, Hoe-Grange Quarry.—Arnold-Bemrose, H. H.
Boothite.—Schaller, W. T., 3.
Borax, Chile.—Yunge, G.
——, United States.—Day, D. T.
Boreodon.—Stanton, T. W.
Borings, Belgium.—Mourlon, M., 3; Van Ertborn, O., 1 & 3.
——, Bohemia.—Katzer, F.
——, Cambridgeshire.—Whitaker, W., 3.
——, dip of beds in.—Marriott, H. F.
——, Dover.—Anon., 17.
——, fossils in.—Capeder, G., 3.
——, Germany (N.).—Linstow, O. von; Ochsenius, K.; Schneider, O.
——, Hesse.—Klemm, G., 3; Steuer, G.; Reinach, A. von, 2.
——, Lincolnshire.—Woodward, H. B., 9.
——, Meurthe-et-Moselle. — Cavallier, C.; Laur, F., 1–3; Nicklès, R., 3 & 4; Zeiller, R., 3 & 4.
——, Neuffen.—Branco, W., 2; Stremme, H.
——, Newfoundland.—Howley, J. P.
——, New Jersey.—Vermeule, C. C.
——, Nord.—Cornet, J., 5.
——, Nova Scotia.—Gilpin, E., Jun., 3.
——, Picardy.—Gosselet, J.
——, Rome.—Clerici, E., 2.
——, Schleswig-Holstein.—Gagel, C., 2 & 4.
——, Silesia.—Michel, R., 2.
——, stresses in earth's crust.—Chree, E.
——, temperature in deep.—Gilbert, G. K., 3.
——, Transvaal.—Horwood, C. B.
——, Turin.—Sacco, F., 4.
——, United States.—Darton, N. H.; Fuller, M. L., 5.
——, Victoria.—Anderson, W. R.
Bormio (Lombardy).—Hammer, W., 1 & 3.
Borneo (E.I.).—Huxham, B. H.; Roden, J.; Volz, W., 2.
——, West (D.E.I.).—Easton, N. W.
Bornia.—Clark, W. B.
Borszekfürdö (Transylvania). — Pálfy, M. von, 2.
Boskowitz (Moravia).—Suess, F. E., 2.
Bosnia.—Baumgærtel, B.; Hawelka, V.; Katzer, F., 3 & 4; Kittl, E.; Schiller, J.
Bosrück Tunnel (Upper Austria).—Geyer, G., 2.
Boston (Mass.).—Gulliver, F. P.
Bostonite, Pembrokeshire. — Elsden, J. V., 2.
——, Rézbánya.—Windhager, F.
Bothnia, Gulf of.—Howorth, Sir H. H., 3.
Botzen (Tyrol).—Trener, G. B.
Bouchardia.—Hutton, F. W., 4.
Boulangerite.—Gonnard, F., 2.
Boulder-Clay, facetted pebbles in Cheshire.—Bather, F. A., 3.
—— ——, Lancashire.—Reade, T. M.
Boulder-Clay, Yorkshire.—Sheppard, T.
Boulders, Cambridgeshire.—Rastall, R. H., 4.
——, Danish & N. German glacial.—Grœnwall, K. A., 1 & 2.
——. *See also* Erratic blocks.
Boulonnais (France). — Cornet, J.; Fliche, P., 3; Mourlon, M.; Sauvage, H. E., 1 & 3.
Bourbon-Lancy (Saône-et-Loire). — Michel-Lévy, Alb. M.
Bourges (Cher).—Dollfus, G. F., 3.
Bournemouth (Hants).—Reid, C., 2.
Bournonite.—Richard A.; Schaller, W. T., 3.
Bovey Tracy (Devon).—Lowe, H. J.
—— —— Beds, Devon.—Fisher, O., 2; Hunt, A. R., 4.
Bowmanite.—Solly, R. H.
Brabant (Belgium).—Halet, F.; Van Ertborn, O.
Brachiopoda, Carboniferous. — Morgan, J. de, 2.; Nœtling, F., 3; Reagan, A. B., 3; Stobbs, J. T.; Vaughan, A.
——, Cretaceous.—Masias, M. G., 2; Morgan, J. de, 2; Péron, A.; Wilckens, O.
——, Devonian.—Dun, W. S.; Loomis, F. B.; Thomas, I.
——, Jurassic.—Benecke, E. W.; Clerc, M.; Dacqué, E., 2.; Krumbeck, L.: Loriol, P. de; Upton, C.; Rau, K.
——, Ordovician. — Chapman, F.; Fœrste, A. F.; Raymond, P. E., 2; Reed, F. R. C.
——, Permian.—Martelli, A.
——, Silurian.—Dun, W. S.; Hudson, G. H.; Wiman, C., 2.
——, Tertiary.—Bœhm, J., 5; Clark, W. B.; Hutton, F. W., 4.
——, Triassic.—Bœhm, J.
Brachiocrinus.—Talbot, M.
Brachiosaurus.—Riggs, E. S.
Brachybrachium.—Williston, S. W.
Brád (Transylvania).—Bauer, J.
Bradenham (Bucks).—Spicer, E. C.
Bradford (Yorks).—Jowett, A.
Bradorona.—Wiman, C., 2.
Bradya.—Stache, G.
Bragdon Formation, California.—Diller, J. S.
Bramburg (Hanover).—Hornung, F.
Brandenburg (Prussia).—Beyschlag, F.; Raab, O.; Schrœder, H., 2.
Brass, H. *Obit*.—*See* Marr, J. E.
Bravais on twinning.—Friedel, G.
Braunau District (Silesia).—Berg, G.; Schmidt, A., 2.
Brazil (S. Am.).—Cayeux, L., 2.; Hlawatsch, C., 2; Hussak, E.; Krasser, F.; Milne, G. T.; Scott, H. K.
Breccias, Chablais Jurassic. — Lugeon, M.
——, frictional, between granite and marble, Basses-Pyrénées. — Termier, P., 4.
——, Manx schistose.—Blake, J. F.

Brecciated limestones, Pyrenees.—Rousel, J.
Brèche-au-Diable (Normandy).—Bigot, A., 2.
Bredon Hill (Worcester).—Richardson, L., 7 & 8.
Brenner Pass (Tyrol). — Bonney, T. G., 8.
Brescia (Lombardy).—Bettoni, A.; Cacciamali, G. B., 2.
Brentwood (Essex). — Woodward, H. B., 4.
Breslau (Silesia). — Dathe, E.; Frech, F., 4.
Bressuire (Deux-Sèvres).—Fournier, A.
Bretten (Baden).—Schnarrenberger, K., 2.
Bribir (Dalmatia).—Dainelli, G.
Bridgend (Glamorgan).—Strahan, A., 2; Tiddeman, R. H.
Bridges, natural, formation of.—Cleland, H. F.
Bridlington (Yorks).—Muff, H. B.
Brilon (Westphalia).—Leclerc, H.
Bristol.—Morgan, C. L.; Tutcher, J. W.; Vaughan, A.
Britanny (France).—Bigot, A., 1 & 7; Brun, P. de.
British Association, S. Africa, 1905.—Anon., 24; Boulenger, G. A.; Herbertson, A. J., 2; Miers, H. A.
British Central Africa.—Dunstan, W. R., 8.
British Columbia (Canada).—Ashworth, J., 1 & 2; Atkin, A. J., 1 & 2; Attwood, G.; Bell, R.; Carmichael, H.; Daly, R. A., 2; Macbride, R.
British Guiana (S. Am.).—Hargreaves, T. S.
British Isles, earth-movements.—Strahan, A.; *see also* England, &c.
British Pacific Cable.—Klotz, O.
Brocken massif (Harz). — Erdmannsdœrffer, O. H., 3.
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Brookite, Cleveland ironstone with.—Lindsey, C. R.
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—— ——, Bohemian Tertiary.—Hibsch, J. E.
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—— ——, Wiesbaden Tertiary.—Henrich, F., 2.
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Brown, T. *See* Sherborn, C. D., 4.
Brown's Creek (Victoria).—Chapman, F., 2.
Browne, R. G. M. *Obit.* — *See* Marr, J. E.
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Bruguierea.—Prever, P. L.
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Bulla.—Wilckens, O.
Bullinula.—Weaver, C. E.
Bunter Sandstone. *See* Trias.
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Burma. — Fawns, S., 2; Holland, T. H., 2.
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—— pebbles, Aberdeenshire clay with white-.—Gibb, A. W.
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Chorlton-on-Medlock (Lancs.). — Dawkins, W. B., 3.
Chorolque (Bolivia).—Roberts, M.
Christiania (Norway).—Reusch, H., 2.
Chromite, Bosnia.—Baumgærtel, B.
Chrysoberyl.—Evans, N. N.
Chrysocolla.—Lindgren, W., 3.
Chrysocyon.—Ameghino, F., 4.
Chrysodomus.—Clark, W. B.; Deninger, K.
Chrysophrys.—Bassini, F., 3.
Chuniespoort (Transvaal). — Kynaston, H., 6.
Cidaris.—Bœhm, J.; Remeš, M.
Cinglais, Pays de (Calvados).—Bigot, A., 3.
Cinulia.—Wilckens, O.
Ciply (Hainault).—Cornet, J., 3.
Cirques, formation of.—Howorth, Sir H. H.
Cirripedia, Tertiary.—Tièche, M.
Cisa Pass, Apennines.—Bellini, R., 3.
Città della Pieve (Umbria).—Verri, A.
Clachland Point (Arran). — Thomson, J., 2.
Cladodelphys.—Ameghino, F., 7.
Cladodus.—Traquair, R. H.
Cladophlebis.—Yokoyama, M.
Cladosictis.—Sinclair, W. J., 3.
Clan William (Cape Colony).—Rogers, A. W., 2 & 3.
Clansayes (Drôme).—Jacob, C., 2.
Clapham (Beds.). — Woodward, H. B., 6.
Clapham (Yorks.).—Dwerryhouse, A. R.
Clarbeston (Pembroke).—Thomas, H. H., 2.
Clare, Co. (Ireland). — Hind, W., 2; Scharff, R. F.
Clark, E. *Obit*.—*See* Green, B. R.
Clavulina.—Wójcik, K.
Clay-industries, United States.—Day, D. T.
—— -ironstones. *See* Ironstones.
—— -slates, Antarctic.—Nordenskjœld, O.
Clay-with-flints, Surrey.—Young, G. W.
Clays, Ceylon.—Coomáraswámy, A. K., 2.
——, Cotteswold Hills.—Callaway, C., 2.
——, Dakota (N.).—Berkey, C. P.
——, English Tertiary.—Fisher, O., 2.

Clays, France.—Merle, A.; Vogt, J. H. L., 3.
——, fusibility of.—Ries, H., 3 & 4.
——, Heppenheim.—Steuer, A.
——, Indiana.—Blatchley, W. S., 3.
——, Iowa.—Beyer, S. W., 1–3; Weems, J. B.
——, Liassic.—Woodward, H. B., 7.
——, Meissen.—Seemann, —.
——, Missouri.—Wheeler, H. A.
——, New Jersey.—Ries, H., 4 & 6.
——, New York.—Sarle, C. J., 2.
——, Ohio.—Bleininger, A. V.
——, Tuscany.—Ristori, G.
——, Wyoming baked.—Bastin, E. S.
——, United States literature on. — Emmons, S. F., 2.
Cleavage, slaty.—Fisher, O., 5; Harker, A., 3; Leith, C. K.
Clee Hill (Salop).—Herries, R. S., 2.
Cleeve, P. T. *Obit.*—*See* Anon., 3.
Cleiocrinus.—Springer, F.
Clenia.—Ameghino, F., 7.
Clermont (Oise).—Capitan, L., 2.
Cleveland ironstone, brookite in. — Lindsey, C. R.
Clidophorus.—Raymond, P. E., 2.
Cliffs, sea-.—Issel, A., 2.
Cliffwood Point & Cliffwood Clays, New Jersey.—Weller, S., 1 & 2.
Clifton (Ariz.).—Lindgren, W., 2 & 3.
Climate, earth-deformation &.—Penck, A., 2.
Climates, arid.—Davis, W. M., 2.
Climatic changes, Baltic.—Howorth, Sir H. H., 3.
Climacograptus.—Hall, T. S., 4.
Climactichnites.—Woodworth, J. B.
Clionites.—Bœhm, J.
Clionychia.—Raymond, P. E., 2.
Clisiophyllum. — Stuckenberg, A.; Vaughan, A.
Cloughtonia & *Clydoniceras.*—Blake, J. F., 2.
Clymenia-beds, Morvan.—Lévy, Alb. M.
Coal, Alaska.—Brooks, A. H., 1 & 2; Martin, G. C.
——, Alberta.—Bell, R.
——, Argentina.—Rowbotham, J. McK.
——, Balkan Cretaceous.—Douvillé, H., 6; Launay, L. de; Zeiller, R.
——, bituminous.—Halberstadt, B.
——, Bohemia.—Hœfer, H., 2.
——, Borneo.—Huxham, B. H.; Roden, J.; Scrivenor, J. B., 3.
——, British Columbia.—Ashworth, J., 2; Bell, R.; Macbride, R.
——, Canada (E. & W.).—Anon., 20.
——, Cape Colony.—Anderson, W.; Du Toit, A. L.
——, Chile.—Lucio, F. de; Schneider, J.; Yunge, G.
——, China.—Shockley, W. H.
—— Commission, 1901–1905.—Greenwell, A.
——, Cumberland.—Brown, M. W., &c.
——, Dover.—Dawkins, W. B.; Thompson, R. R.
Coal, Færöe Is.—Dodd, R.
——, Georgia.—Maccallie, S. W.
——, Great Britain, &c.—Home Office, 4.
——, Guam I.—Safford, W. E.
——, India.—Holland, T. H., 2; Pickering, W. H.; Rudra, S. C.
——, Indiana.—Epperson, J.
——, Iowa.—Beyer, S. W., 1 & 3.
——, Kansas.—Kneer, E. B.
——, Limburg (Dutch).—Dewalque, G.
——, Lorraine.—Cavallier, C.; Laur, F., 1–3; Lucke, O.; Nicklès, R., 3 & 4; Zeiller, R., 3 & 4.
——, Maryland.—Rutledge, J. J.
——, Mexico.—Barriga, M. D.
—— mining, annals of.—Galloway, R. L.
——, Missouri.—Ball, S. H.
——, Münster Basin.—Schulz-Brisen, B.
——, New South Wales.—Parton, J.; Pittman, E. F.
——, New Zealand.—Hayes, J.; Macgowan, J., 1 & 2; Park, J., 4.
——, Nova Scotia.—Gilpin, E., Jun., 1 & 3.
——, origin of.—Hoffmann, J. F.
——, Perak.—Scrivenor, J. B., 4.
——, Peru.—Dueñas, E. I.; Habich, E. A. V. de; Santolalla, F. M., 1–3.
——, Queensland.—Cameron, W. E.; Dunstan, B.; Syson, R. C.
——, Silesia.—Geisenheimer, P.; Michel, R., 2.
——, Spitsbergen.—Stevenson, J. J., 2 & 3.
——, Sweden.—Sundbærg, G.; Wilkinson, W. F.
——, Tasmania.—Twelvetrees, W. H., 1, 3 & 6–8.
——, Tomsk & Yenisei Govs.—Friz, W.
——, Transvaal.—Swinburne, W. P., 1–3; Weldon, H.; Whitehead, J. J.
——, United States production, &c.—Day, D. T.; Emmons, S. F., 2.
——, Virginia (W.).—Payne, H. M.
——, Western Australia.—Simpson, E. S.
——. *See also* Brown Coal, *&c.*
Coalfields, Aix-la-Chapelle.—Forir, H.
——, Alberta.—Bell, R.; Jacobs, E.
——, Bengal.—Stonier, G. A., 2.
——, British Columbia.—Ashworth, J.; Bell, R.
——, Cape Colony.—Russell, A.
——, Durham.—Stobbs, J. T., 2.
——, Fife.—Anon., 29; Wilson, J. S. G.
——, Lancashire.—Gerrard, J.
——, Liége.—Lohest, M.; Stainier, X.
——, Lorraine.—Cavallier, C.; Laur, F. 1–3; Lucke, O.; Nicklès, R., 3 & 4; Zeiller, R., 3 & 4.
——, Missouri.—Bush, B. F.
——, Pennsylvania.—Halberstadt, B.; Stevenson, J. J.
——, Saxony.—Hausse, R.; Kliver, —; Seebohm, —.
——, Scotland.—Simmersbach, B., 4.

Coalfields, Silesia.—Geisenheimer, P.; Michel, R., 2.
——, Staffordshire, &c.—Gibson, W., 1 & 2; Kidston, R.; Stobbs, J. T., 1 & 3.
——, Texas.—Ries, H., 5.
——, Wales (S.).—Strahan, A., 2–4.
——, Westphalia, &c. — Krusch, —; Mueller, G., 2.
——, Yorkshire.—Middleton, F. E.
Coal-Measures. *See* Carboniferous.
Coast-changes, Elbe estuary.—Hansen, R.
—— erosion, England & Wales.—Carey, A. E.; Matthews, E. R.; Spiller, J.; Wilson-Barker, D.
—— ——, Médoc. — Degrange-Touzin, A.
—— ——, Portugal.—Choffat, P., 3 & 6.
—— -ledges, Cape Colony.—Schwarz, E. H. L., 2.
—— Ranges, California.—Anderson, F. M.
Cobalt, Hungary.—Gesell, A.
——, Ontario.—Bell, R.
——, Saxon Erzgebirge.—Beck, R.
Cobleskill Limestone, New York.—Hartnagel, C. A.
Coccoliths.—Fuchs, F., 5.
Cochleosaurus.—Broili, F., 2.
Cochliodontidæ, Carboniferous. — Branson, E. B.
Cock of Arran. *See* Arran.
Codaster.—Rowley, R. R.
Codonospermum.—Grand'Eury, F. C., 3.
Codornella.—Rau, K.
Cœlestine. *See* Celestite.
Cœlodus.—Choffat, P.
Cohen, E. *Obit.*—*See* Deecke, W., 4.
Colchester (Essex).—Davison, C., 5.
Collins, A. L. *Obit.*—*See* Lawrence, B. B.
Colne (Lancs.).—Bolton, H., 2; Woodward, H., 4.
Colobodus.—Gorjanovič-Kramberger, K.
Colombia (S.A.).—Felix, J., 2.
Colorado (U.S.A.).—Capps, S. R.; Collins, G. E.; Darton, N. H.; Emmons, S. F., 2; Hillebrand, W. F., 4; Lakes, A., 3; Lindgren, W., 4; Ritter, E. A.; Westgate, L. G.; Williston, S. W., 2.
Coltura (Venetia).—Taramelli, T., 2.
Columbella.—Clark, W. B.
Columbia, District of (U.S.A.).—Fuller, M. L., 2–4; Piper, C. V.
Columbite.—Headden, W. P., 2.
Colville, Cape (Auckland).—Sollas, W. J., 2.
Combe, Mt. (Congo Free State).—Preumont, G. F. J.
Cominella.—Wilckens, O.
Como (Lombardy).—Wilmer, F.
Comoseris.—Koby, F.
Comptonia.—Spencer, W. K.
Comstock Lode (Nev.).—Maguire, —; Reid, J. A.
Concretions, *Bi'obites*-like.—Deecke, W., 2.
Concretions, cement & coal.—Smith, J., 2–4.
——, origin of.—Miers, H. A., 2.
——, phosphatic.—Collet, L. W., 2.
——, quartz.—Meunier, S.
——. *See also* Orbicular.
Condesuyos (Peru).—Alvarado, L. U.
Condonga (Minas Geraes).—Hussak, E.
Condor, Bolivian fossil.—Lœnnberg, E.
Condroz massif (Namur).—Destinez, P., 2.
Conero, Mte. (Italy).—Cassetti, M., 3.
Cones, alluvial.—Purdue, A. H.
——. *See also* Alluvial, Volcanic, &c.
Confusastrea.—Koby, F.
Conglomerates, Alpes-Maritimes Tertiary.—Dollfus, G. F.
——, Gippsland serpentine.—Thiele, E. O.
——, La Malle Valley Tertiary. — Guébhard, A., 6.
——, Rhodesian auriferous.—Mennell, F. P., 3 & 4.
——, Var Delta.—Guébhard, A., 5.
——, Witwatersrand.—Hatch, F. H., 2 & 4.
——. *See also* Dwyka, *&c.*
Congo Basin (Africa).—Cornet, J., 4; Delisle, F.
Congo Free State (Africa).—Buttgenbach, H., 2, 3 & 5; Preumont, G. F. J.
Conifers, Jurassic.—Fliche, P., 3.
Connectastrea.—Koby, F.
Conocardium.—Raymond, P. E., 2.
Conodonts, Silurian.—Wiman, C., 2.
Conon Basin (Ross).—Murray, Sir J., 2; Peach, B. N.
Conoplain, Ortiz Mts.—Ogilvie, I. H., 2.
Consolino di Stilo, Mte. (Calabria).—Bassani, F., 8.
Contact-metamorphism.—Credner, H.; Eisele, H.; Erdmannsdœrffer, O. H.; Ermisch, K., 2; Fedorov, E. von, 2; Hussak, E.; Knopf, A.; Pelikan, A.; Turner, H. W.; Van Hise, C. R.; Weinschenk, E., 2.
Contact-zones, growth of crystals in. — Cole, G. A. J.
Continental platforms, submerged. — Nansen, F.; Spencer, J. W., 2.
Conularia.—Raymond, P. E., 2; Wiman, C., 3.
Conus.—Gregorio, A. de; Locard, A.
Converse Co. (Wy.).—Hatcher, J. B.
Convexastrea.—Koby, F.
Coolgardie (N.) (W. Austral.).—Jackson, C. F. V.
Copper, Africa (S.W.).—Voit, F. W.
——, Alaska.—Brooks, A. H.
——, Altai.—Spring, R., 2.
——, Argentina.—Rowbotham, J. McK.
——, Arizona. — Graichen, W.; Jennings, E. P.; Lindgren, W., 2 & 3; Ransome, F. L.
——, Berehaven.—Blenkinsop, G. H.
——, Bolivia.—Bradley, D. H., Jun.
——, Canada.—Bell, R.
——, Chile.—Yunge, G.

Copper, Congo Free State.—Buttgenbach, H., 2.
——, Cuba.—Souder, H.
——, Elizabetpol.—Kœller, G.
——, garnet associated with.—Smith, G.
——, Great Britain.—Home Office, 4.
——, Hungary.—Illés, W.; Mauritz, B.
——, Lake-Superior district.—Lane, A. C., 2.
——, New South Wales.—Pittman, E. F.
——, Peru.—Loroza, E.; Masias, M. G., 2; Santolalla, F. M., 2.
——, Queensland.—Smith, G.
——, Sardinia.—Lovisato, D.
——, Sonora (Mex.).—Blake, W. P., 3.
——, South Australia.—Gascuel, L.; Gee, L. C. E.
——, Styria.—Redlich, K. A.
——, Sweden.—Sundbærg, G.
——, Tasmania.—Gregory, J. W.
——, Tuscany.—Ermish, K., 2.
——, Tyrol.—Rose, —.
——, United States, production, &c.—Day, D. T.; Emmons, S. F., 2.
——, Utah.—Boutwell, J. M.
——, Western Australia.—Simpson, E. S.
——, Wicklow, Co.—Davies, E. H.
Copper-pyrites, Rumania.—Nicolau, T.
Coprosmœphyllum.—Deane, H.
Coptosoma.—Loriol, P. de, 2.
Cor (Donegal).—Cole, G. A. J.
Coral-reefs, Indian Ocean.—Fuchs, T., 4.
——, Pacific.—Agassiz, A.; Safford, W. E.
Corallites, coral-genera &.—Angelis d'Ossat, G. de, 3.
Corals, Carboniferous.—Stuckenberg, A.; Thomson, J., 1 & 3; Vaughan, A.
——, Cretaceous.—Angelis d'Ossat, G. de; Dacqué, E.; Péron, A.; Vaughan, T. W.
——, Devonian.—Etheridge, R., *fil.*; Thomas, I.
——, Jurassic.—Benecke, E. W.; Koby, F.; Gregorio, A. de, 2; Missuna, A.; Vaughan, T. W.
——, Permo-Carboniferous.—Morgan, J. de, 2.
——, Silurian.—Etheridge, R., *fil.*; Shearsby, A. J.; Želízko, J. V.
——, Tertiary.—Clark, W. B.; Dainelli, G.; Dennant, J.; Felix, J., 2; Newton, R. B., 6.
Corbières (Languedoc).—Mengel, O.
Corbis.—Morgan, J. de, 2.
Corbula.—Loriol, P. de; Morgan, J. de, 2; Wilckens, O.
Corchiano (Rome).—Meli, R.
Cordaites, seeds of.—Grand' Eury, F. C., 2.
Cordierite.—Tacconi, E., 2.
Cordieritic rocks, Rican.—Pelikan, A.
Cordovaro (Venetia).—Taramelli, T.
Cordylocrinus.—Talbot, M.
Cork City & Harbour.—Lamplugh, G. W., 5.
Cork, Co. (Ireland).—Blenkinsop, G. H.; Muff, H. B.; Ussher, R. J.; Wright, W. B.
Cornbrash fauna.—Blake, J. F., 2.
Cornish minerals.—Rudler, F. W., 3.
Cornwall.—Bather, F. A., 2; Busz, K.; Collins, J. H., 2; Crick, G. C., 3; Davison, C., 2; Fawns, S., 2; Flett, J. S.; Fox, H., 1 & 2; Home Office, 4; Latham, F.; Macalister, D. A.; Stephens, F. J.; Ussher, W. A. E., 2; Woodward, H.
Corocalyptra.—Squinabol, S., 3.
Coronadite.—Lindgren, W., 3.
Corsica, I. of.—Deprat, J., 5 & 6; Tornquist, A., 3.
Cortina District (Tyrol).—Skeats, E. W.
Corundum, Ceylon.—Coomáraswámy, A. K., 3 & 4; Dunstan, W. R., 5.
——, India.—Holland, T. H., 2.
——, Ontario.—Bell, R.
——, Perak.—Evans, J. W., 3.
——, United States, &c.—Day, D. T.
Corylus.—Palibin, I. V.
Cosasca (Piedmont).—Lincio, G.
Cosenza (Calabria).—Crema, C.
Cosmogony.—Wetherell, E. W.
Cossa (A.) Collection.—Sacco, F., 7.
Costigan Coalfield (Alberta).—Bell, R.
Côte-d'Or (France).—Martel, E. A., 5.
Côte-St. André (Isère).—Hitzel, —, 2.
Côtes-du-Nord (France).—Brun, P. de.
Cotham Marble, Bristol.—Short, A. R., 2.
Cotteswold Hills (Gloucester).—Callaway, C., 2; Salter, A. E.; Upton, C.
Cottus.—Leriche, M., 2; Lœnnberg, E., 2.
Covehithe (Suffolk).—Spiller, J.
Cowbridge (Glamorgan).—Richardson, L., 3.
Cow-Meadow gravel-pit, Northampton.—Thompson, B.
Coxwell, Little (Berks).—Wright, J.
Crag, Suffolk.—Fisher, O., 3.
Craggie, Loch (Ross).—Murray, Sir J., 3.
Crania.—Bœhm, J.; Reed, F. R. C.
Craspedites.—Kœnen, A. von.
Crassatella.—Dainelli, G.
Craveggia (Piedmont).—Lincio, G.
Crayford (Kent).—Leach, A. L.
Creep-folding in valleys.—Howe, J. A.
Crenella.—Clark, W. B.
Cretaceous, Africa (S.).—Hatch, F. H., 4.
——, Algeria.—Gentil, L., 2; Savornin, J.
——, Alpes-Maritimes.—Guébhard, A., 1–3.
——, Angola.—Choffat, P., 5.
——, Balkan Mts.—Launay, L. de.
——, Berkshire.—Wright, J.
——, Bohemia.—Jahn, J. J.; Petrascheck, W., 2, 3, & 4; Schmidt, A., 2.
——, Brunswick.—Wollemann, A.

Cretaceous, Brussels.—Rutot, A., 5.
——, Bukowina.—Vetters, H., 2.
——, Cambridgeshire.—Lamplugh, G. W., 3.
——, Cameroons.—Grossouvre, A. de, 4.
——, Cape Colony.—Rogers, A. W., 4.
——, Capri.—Airaghi, C., 3; Angelis d'Ossat, G. de.
——, Daghestan.—Wysogórski, J.
——, Dalmatia.—Kerner, F. von.
——, Drôme.—Jacob, C., 2.
——, Egypt.—Beadnell, H. J. L.
——, Galicia.—Wiśniowski, T.
——, Greece.—Négris, P., 2.
——, Harz.—Philippi, E., 5.
——, Heligoland.—Kœnen, A. von.
—— invertebrate types, Philadelphia Acad. Nat. Sci. Collection.—Johnson, C. W.
——, Isère.—Jacob, C.; Pâquier, V.
——, Kansas.—Sternberg, C. H.; Wieland, G. R.
——, Languedoc.—Sayn, G.
——, Leysin, Upper Red.—Douvillé, H., 8; Renevier, E.; Rœssinger, E.
——, Limburg (Dutch).—Uhlenbroek, G. D.
——, Marches (Italy).—Cassetti, M., 3.
——, Molise.—Fittipaldi, E. U.
——, Montana.—Stanton, T. W.
——, New Jersey.—Prather, J. K.; Ries, H., 6; Rutot, A., 5 & 6; Weller, S., 1 & 2.
——, Oise.—Meunier, S.
——, Oppeln.—Flegel, K., 2.
——, Oregon.—Louderback, G. D.
——, Patagonia.—Wilckens, O., 1 & 3.
——, Persia.—Douvillé, H., 7; Morgan, J. de, 2.
——, Peru.—Masias, M. G., 2.
——, Portugal.—Choffat, P., 1 & 4.
——, Pyrenees.—Roussel, J.
——, Revigliano I.—Lorenzo, G. de, 3.
——, Rome.—Dainelli, G., 2.
——, Russia.—Pavlov, A. P.
——, Sahara, &c.—Lapparent, A. de, 2.
——, Sardinia.—Tornquist, A., 3.
——, Saxony.—Deninger, K.; Petrascheck, W.
——, Silesia.—Schmidt, C., 2; Sturm, F.; Wysogórski, J., 3; *see also* Geological Society, German.
——, Somaliland.—Dacqué, E.
——, Tunis.—Gauthier, V., 2; Péron, A.; Thomas, P.
——, Venetia.—Squinabol, S., 3.
——, Westphalia.—Meyer, E.
——, Wyoming.—Merriam, J. C., 4.
——, Zululand.—Etheridge, R., *fil.*, 3.
——. *See also* Neocomian, &c.
Crete.—Bate, (Miss) D. M. A.; Bullen, R. A.
Crimea (Russia).—Missuna, A.
Crinoidea, Carboniferous.—Lankester, E. R.; Rowley, R. R.; Whitfield, R. P., 2.
——, Cretaceous.—Hucke, W.; Jækel, O., 2.
Crinoidea, Devonian.—Loomis, F. B.; Schuchert, C.
——, Jurassic.—Benecke, E. W.; Lankester, E. R.; Remeš, M.
——, Silurian.—Hudson, G. H.; Springer, F.; Talbot, M.
Cripple Creek (Colo.).—Lindgren, W., 4; Ritter, E. A.
Cristellaria.—Brueckmann, R.; Hucke, W.; Wójcik, K.
Cristobalite.—Gaubert, P., 2.
Croatia.—Waagen, L., 3.
Croce, Pania della (Apuan Alps).—Novereto, G.; Zaccagno, D., 2.
Crocidolite.—Molengraaff, G. A. F., 2.
Crocodilus.—Andrews, C. W.
Cromarty Firth (Scotland).—Murray, Sir J., 2; Peach, B. N.
Cromer (Norfolk).—Bonney, T. G., 4; Harmer, F. W.
Cromer Forest-Bed, Dutch & Belgian equivalent of.—Dubois, E., 1 & 4.
Cross Fell (Cumberland).—Lewis, F. J.
Crossotheca.—Kidston, R., 3.
Crow's-Nest Coalfield (B.C.).—Ashworth, —.
Crozon (Britanny).—Bigot, A.
Cruratula.—Galdieri, A., 2.
Crustacea, Carboniferous.—Woodward, H., 4 & 5.
——, Cretaceous.—Weller, S.; Wilckens, O.
——, Devonian.—Loomis, F. B.
——, Silurian.—Lankester, E. R.; Sarle, C. J.
——, Tertiary.—Hall, T. S., 2; Tièche, M.; Woodward, H., 3.
Cruziana.—Wiman, C., 2.
Cryolite, Greenland.—Day, D. T.
Cryptaulax.—Blake, J. F., 2.
Cryptocœnia.—Koby, F.
Cryptograptus.—Hall, T. S., 4.
Cryptoplax.—Hall, T. S., 3.
Crystalline rocks, Ecuador.—Wolff, F. von.
—— ——, natural perforations in.—Baron, R.; Bonney, T. G., 3; Ferrar, H. T.
Crystallization, concretions due to.—Miers, H. A., 2.
Crystallographic projections.—Becke, F., 3; Fedorov, E. von; Hilton, H., 2 & 3; Penfield, S. L.
Crystallography.—Fedorov, E. von, 1–5; Hilton, H., 1–4; Lippitsch, K.
Crystal-clusters, gneiss with.—Lincio, G., 3.
Crystals, axes of.—Becke, F., 4; Luczizki, W.
——, deformation by pressure.—Lœwinson-Lessing, F., 3.
——, gold.—Schwarz, E. H. L., 4.
——, growth in contact-zones.—Cole, G. A. J.
——, interference-figures of.—Becke, F., 3; Grattarola, G.
——, linear force of growing.—Becker, G. F., 4.

Crystals, skiodromes of.—Becke, F., 3 ; Fedorov, E. von.
——, structure of.—Fedorov, E. von, 4; Nold, A.; Sommerfeldt, E.; Viola, C.
——, symmetry of.—Fedorov, E. von, 3; Friedel, G., 2; Hilton, H., 4; Marshall, H.; Stevanovič, S., 2.
——, twinning of.—Friedel, G.; Osthoff, A.
——. *See also* Minerals, *&c.*
Csaklya (Transylvania). — Roth von Telegd, L.
Csepel I. (Hungary).—Gull, W.
Ctenodonta.—Raymond, P. E., 2; Reed, F. R. C.; Stobbs, J. T.
Cuba (W. I.).—Day, D. T.; Souder, H.
Cucullæa.—Bœhm, J.; Wilckens, O.
Cullinan diamond.—Hatch, F. H., 3.
Culm, Devon.—Arber, E. A. N., 2, 5, & 6; Hamling, J. G.; Jukes-Browne, A. J.
——, Flechtingen.—Wiegers, F.
——, Gothland.—Sjœgren, H., 4.
——, Hesse, Westphalia, &c. — Beyschlag, F.
——, Moravia.—Suess, F. E.
Cumberland.—Brown, M. W.; Dodds, R., 2; Lewis, F. J.
Cumnor (Berks).—Walker, H.
Cuneocythere.—Linenklaus, E.
Cunninghamites. — Stanton, T. W.; Zeiller, R.
Cupar (Fife).—Joly, J.
Cupularia.—Canu, F.
Cursipes.—Matthew, G. F., 2.
Cuxton (Kent).—Woodward, A. S., 3.
Cyathocrinus.—Rowley, R. R.
Cyathophora.—Koby, F.
Cyathophyllum.—Vaughan, A.
Cycadeoidea.—Fliche, P., 3.
Cycadofilices, Carboniferous.—White, D.
Cyclammina.—Chapman, F., 2; Schubert, R. J., 3; Silvestri, A.
Cycloclypeus.—Chapman, F., 3.
Cyclocypris.—Lienenklaus, E.; Sieber, —.
Cyclonema.—Raymond, P. E., 2.
Cyclophyllum.—Stuckenberg, A.
Cyclopsina.—Schlumberger, C.
Cyclostoma.—Menzel, H., 2.
Cyclus.—Woodward, H., 5.
Cylichna.—Clark, W. B.; Etheridge, *fil.*, 3.
'Cylinders' volcanic rock.—Klemm, G., 2.
Cylindrites.—Blake, J. F., 2.
Cymbospondylus.—Merriam, J. C., 2.
Cyperites.—Kerner, F. von.
Cypress Hills (Assiniboia).—Lambe, L. M., 4 & 5.
Cypria, Cypridopsis, & Cypris.—Lienenklaus, E.; Sieber, —.
Cyprus.—Bate, (Miss) D. M. A., 2; Bellamy, C. V., 2; Duke, J. C.
Cyratoceras.—Crick, G. C., 2.
Cyrtina.—Dun, W. S.
Cyrtodonta.—Hudson, G. H.; Raymond, P. E., 2; Reed, F. R. C.
Cyrtolite.—Hidden, W. E.
Cyrtopora.—Canu, F.
Cyrtostropha.—Donald, (Miss) J., 2.
Cystoidea, Devono-Silurian.—Schuchert, C.
——, Silurian.—Hudson, G. H.; Jækel, O., 3.
Cythere.—Clark, W. B.
Cytherea.—Etheridge, R., *fil.*, 3; Locard, A.; Morgan, J. de, 2; Wilckens, O.
Cythereis & Cytheridea.—Clark, W. B.; Lienenklaus, E.
Cytherideis.—Clark, W. B.
Cytheropteron.—Clark, W. B.; Lienenklaus, E.
Cytherura.—Lienenklaus, E.
Czaruy dil-Gebirge (Bukowina).—Vetters, H., 2.

Dacite, Murcia.—Pitz, R.
——, New Zealand.—Sollas, W. J., 2.
Dactyliosphæra.—Squinabol, S., 3.
Daghestan (Caucasia).—Terpigorev, A., 2; Wysogórski, J.; Yachevski, L., 3.
Dahomey (W. Africa).—Bœhm, J., 4.
Daimh, Loch an (Ross).—Murray, Sir J., 3.
Dakota, N. (U. S. A.).—Berkey, C. P.; Wilder, F. A.
Dakota, S. (U.S.A.).—Darton, N. H.; Lull, R. S., 3; Matthew, W. D., 4; Reagan, A. B., 5.
Dalles, St. Croix.—Chamberlin, R. T.
Dalmanites.—Hitchcock, C.H.; Thomas, J.
Dalmatia.—Bukowski, G. von; Dainelli, G.; Kerner, F. von, 1–5; Mojsisovics, E. von; Schubert, R. J., 1, 4–7, & 9; Stefani, C. de; Waagen, L., 2.
Damasonium.—Kerner, F. von, 2.
Dammara.—Stanton, T. W.
Dammarites.—Zeiller, R.
Damour, A., *Obit.*—*See* Lacroix, A., 9.
Danakili-land (N.E. Africa).— Arsandaux, H., 1–3.
Danburite.—Kœnigsberger, J.
Dannemora (Svealand).—Wilkinson, W. F.
Danube R.—Kranz, W.; Sevastos, R.
Dapedius.—Gorjanović-Kramberger, K.
Darent, R. (Kent).—Salter, A. E.
Darmstadt (Hesse).—Klemm, G., 4.
Dartmoor (Devon). — Evans, H. M.; Prowse, A. B.
Dassel (Hildesheim).—Beyschlag, F.
Datchworth (Herts).—Salter, A. E., 2.
Datheosaurus.—Schrœder, H.
Dauba (Bohemia).—Graber, H. V., 2.
Daubrée, A. *Obit.*—*See* Berthelot, A.
Dauphiné (France).—Camous, —; Deprat, J.; Favre, J. N.; Girardin, P.; Jacob, C., 1 & 2; Kilian, W.; Lory, P., 1–3; Mougrin, P.; Whymper, E.
——. *See also* Isère, *&c.*
Davas (Asia Minor).—Bukowski, G. von, 3.

Dawson (Queensl.).—Cameron, W. E.
Dawsonites.—Bœhm, J., 1 & 3.
Daylesford (Victoria).—Hart, T. S.
Dearne Valley (Yorks).—Carter, W. L., 3.
Decalcification, flints &.—Meunier, S., 5.
Deep-sea deposits.—Anon., 30; Bruce, W. S.; Klotz, O.
—— fauna.—Fuchs, T., 4 & 7.
Defrance collection, Caen Museum.—Bigot, A., 6.
Degow (Pomerania).—Hucke, K.
Dehydration. *See* Phosphates, &c.
Delaware (U.S.A.).—Fuller, M. L., 2-4.
Delaware Limestone, Ohio.—Prosser, C. S., 2.
Délémont (Berne).—Rollier, L., 2.
Delphinidæ, Miocene.—Abel, O., 4.
Delphinornis.—Wiman, C., 4.
Delphinula.—Gregorio, A. de; Krumbeck, L.
Deltas.—Geinitz, E., 3.
Deltocyathus.—Dennant, J.
Deltodus.—Branson, E. B.
Deluges, geology &.—Sollas, W. J.
Dendrogyra.—Angelis d'Ossat, G. de.
Dendrohelia.—Koby, F.
Deneholes, Grays (Essex).—Biddell, E.
Denmark.—Bœggild, O. B.; Grœnwall, K. A., 2 & 3; Harz, N., 3; Hintze, V., 2; Madsen, V., 1 & 2; Nœrregaard, E. M., 1 & 2; Nordmann, V.
——, lakes of.—Wesenberg-Lund, C.
Dentalium.—Bather, F. A.; Martelli, A.; Wilckens, O.
Denter.—Bassani, F., 3.
Denticopsis.—Fritsch, A., 2.
Denudation, South Africa.—Tottenham, R. G. L.
Derbyshire.—Crick, G. C., 2; Davison, C., 4; Hind, W.; Strangways, C. F., 2.
Dermoseris & *Dermosmilia.*—Koby, F.
Desert rock-film, mangano-ferruginous. —Blake, W. P., 2; Lucas, A.
Desert-sand.—Flick, —; Goodchild, J. G.
Deserts, Arizona, &c.—Blake, W. P.
——, Bechuanaland.—Passarge, S.
——, Egypt.—Lucas, A.
Desmieria.—Morgan, J. de, 2.
De-Sotoville (Ala.).—Brezina, A., 3.
Dessau (Anhalt).—Linstow, O. von, 2.
Deuterozoic.—Anon., 16.
'Deutozoic,' meaning of.—Bonney, T. G.; Goodchild, J. G., 3.
Deux-Sèvres (France).—Fournier, A.
Devizes (Wilts).—Bennett, F. J., 3; Jukes-Browne, A. J., 2.
Devon.—Arber, E. A. N., 2, 5 & 6; Collins, J. H., 2; Evans, H. M.; Fisher, O., 2; Hamling, J. G.; Hunt, A. R., 1, 2, 4, & 5; Jukes-Browne, A. J., 1 & 2; Lowe, H. J.; Prowse, A. B.; Rowe, J. B.; Rudler, F. W., 3; Sibley, T. F., 2; Ussher, W. A. E., 1 & 3.
Devonian, 'altered,' Devon.—Hunt, A. R.
——, Argentina.—Thomas, I.
——, Boulonnais.—Cornet, J.; Mourlon, M.
——, Condroz.—Destinez, P., 2.
——, Cornwall. — Bather, F. A., 2; Crick, G. C., 3; Flett, J. S.; Fox, H., 1 & 2; Ussher, W. A. E., 2; Woodward, H.
——, Düsseldorf.—Kœnen, K.
——, Ellesmere Land.—Nathorst, A. G.
——, Hesse.—Beyschlag, F.; Frech, F., 3; Jækel, O., 5.
——, Kentucky.—Williams, H. S.
——, Kirghiz District. — Jeremina, (Mrs.) E.
——, Maine (U.S.A.).—Smith, G. O.
——, Moravia.—Suess, F. E.
——, Nassau.—Reinach, A. von.
——, New York.—Butts, C.; Clarke, J. M., 4 & 8; Dickinson, H. T.; Drevermann, F.; Glenn, L. C.; Grabau, A. W.; Ingen, G. V.; Loomis, F. B.; Luther, D. D.; Shimer, H. W.
——, Pennsylvania.—Williams, H. S.
——, Poland.—Sobolev, D.
——, Quebec.—Clarke, J. M., 7.
——, Ohio.—Prosser, C. S., 2.
——, Sahara.—Girard, A.; Haug, É., 3.
——, Saône-et-Loire.—Lévy, Alb. M.
——, Westphalia.—Beyschlag, F.
——, Virginia.—Williams, H. S.
—— worms.—Clarke, J. M., 6.
——, Yunnan.—Mansuy, H.
Dewlish (Dorset).—Fisher, O.
Dexter (Kan.).—Macfarland, D. F.
Dharwar (Bombay Pres.).—Ahlers, R. O.
Diabase, Borneo. — Easton, N. W.; Volz, W., 2.
——, Finland.—Hackman, V.
——, Harzburg.—Erdmannsdœrffer, O. H.
——, Hesse.—Brauns, R., 5.
——, Peloponnesus.—Deprat, J.
——, Pembrokeshire.—Elsden, J. V., 2.
——, Sardinia.—Viola, C., 2.
——, Transvaal.—Hall, A. L., 1 & 2; Kynaston, H., 4; Mellor, E. T., 6 & 7; Rand, R. F.; Tweddill, S. M.
——, West Indies.—Hœgbom, A. G., 4.
Diablo-Cañon (Arizona) meteorite. — Moissan, H., 1-3.
Diacanthocapsa.—Squinabol, S., 3.
Diadectidæ.—Case, E. C.
Diamond, light-absorption.—Walter, B.
—— placers, Vaal River.—Coe, F. E.
Diamondiferous breccia, Kimberley. — Bonney, T. G., 8.
—— pipes, Kimberley. — Buttgenbach, H., 1 & 4.
—— ——, Pretoria.—Kynaston, H., 5.
Diamonds, Brazil.—Kunz, G. F.
——, British Guiana.—Hargreaves, T. S.
——, Kimberley. —Bonney, T. G., 8; Buttgenbach, H., 1 & 4; Day, D. T.; Kunz, G. F.

Diamonds, New South Wales.—Pittman, E. F.
——, origin of.—Crookes, Sir W.; Heneage, E.; Moissan, H., 1 & 2; Williams, G. F.
——, Transvaal.—Hatch, F. H., 3.
——, Wisconsin.—Hobbs, W. H., 3.
Diatomaceæ, Tertiary.—Clark, W. B.
Diatomaceous deposits, Acireale.—Clerici, E., 5.
—— ——, Égravats ravine.—Lauby, A.
—— earths.—Evans, J. W., 5.
Dibunophyllum. — Stuckenberg, A.; Vaughan, A.
Dicellograptus.—Hall, T. S., 4.
Diceratops.—Hatcher, J. B.; Lull, R. S.
Dicksonia.—Zalesski, M. D.
Dicolocapsa.—Squinabol, S., 3.
Dicranograptus.—Hall, T. S., 4.
Dictyomitra.—Squinabol, S., 3.
Dictyonema.—Ruedemann, R.
Dictyonema-Slate, New York.—Matthew, G. F.
Dictyophyllum.—Yokoyama, M.
Dictyopyge.—Eastman, C. R., 2.
Dictyoretmon.—Whitfield, R. P.
Dicyclina.—Schlumberger, C., 3.
Dicynodon.—Broom, R.
Dicynodontia, Karroo.—Broom, R., 1–7; Jækel, O.; Seeley, H. G., 1–3.
Dillenburg (Nassau).—Bœhm, —.
Dimetrodon.—Broili, F.; Case, E. C., 3.
Dimorpharea & *Dimorphastrea.* — Koby, F.
Dimorphoceras.—Stobbs, J. T.
Dinant (Namur).—Rahir, E.
Dinantian, Britanny.—Bigot, A., 7.
Dinochœrus.—Peterson, O. A., 1 & 2.
Dinohyus.—Petersen, O. A., 2.
Dinosauria, Cretaceous.—Hatcher, J. B.; Lambe, L. M., 2; Lull, R. S.; Nopcsa, F., 1 & 3.
——, Jurassic.—Anon., 23; Osborn, H. F., 3 & 10; Riggs, E. S.; Williston, S. W., 3.
——, Karroo.—Broom, R., 1–7; Jækel, O.; Seeley, H. G., 1–3.
——. *See also* Reptilia.
Dinotherium.—Hofmann, A., 2.
Diorite, Bavaria.—Glungler, G.
——, Borneo.—Easton, N. W.
——, Caernarvonshire.—Elsden, J. V., 4.
——, California.—Osmont, V. C.
——, Campbell I.—Speight, R.
——, Pembrokeshire.—Elsden, J. V., 2.
——, Perthshire.—Barrow, G.
——, Piedmont.—Franchi, S.
——, Transvaal.—Tweddill, S. M.
——, Victoria.—Whitelaw, O. A. L.
——, West Indies.—Hœgbom, A. G., 4.
Dioplodon.—Vigliarolo, G.
Diopside, *Eozoon*-limestone.—Preiswerk, H., 2.
Dioptase.—Lindgren, W., 3.
Diospyros.—Stanton, T. W.
Diplocœnia.—Koby, F.
Diplodocus. — Anon., 23; Woodward, H., 7.
Diplograptus.—Hall, T. S., 4.
Diplosirenites.—Bœhm, J.
Diplurus.—Eastman, C. R., 2.
Discina.—Bœhm, J.
Disco Bay (Greenland).—Engell, M. C.
Discohelix.—Weaver, C. E.
Discoidea.—Bather, F. A., 4.
Discotrochus.—Dennant, J.
Disteiromys.—Ameghino, F., 7.
Distylocapsa.—Squinabol, S., 3.
Dithmarschen (Schleswig-Holstein). — Hansen, R.
Ditrupa.—Wilckens, O.
Dobsina (Hungary).—Gesell, A.; Illés, W.
Dogger, Blea Wyke.—Rastall, R. H.
——. *See also* Jurassic.
Döhlen (Saxony).—Hausse, R.
Dolerite, Borneo.—Easton, N. W.
——, Fife.—Elsden, J. V., 3; Joly, J.
——, Merioneth.—Fearnsides, W. G.
——, Perthshire.—Barrow, G.
——, Rowley-Regis weathered.—Warth, H.
Dolgelly Group, Merioneth.—Fearnsides, W. G.
Dolichobrachium.—Williston, S. W.
Dolichopterus.—Sarle, C. J.
Dolium.—Newton, R. B., 3.
Dolomite, Alpes-Maritimes.—Guébhard, A.
——, analysis of.—Knight, N., 2.
——, Bukowina.—Vetters, H., 2.
——, calcite &.—Thugutt, St. J., 2.
——, Cannstatt.—Meigen, W.
——, Denmark.—Nœrregaard, E. M., 2,
——, *Lithothamnion*, &c., and.—Vesterborg, A.
——, origin of.—Ball, S. H.; Brien, V.
——, Pyrenees.—Roussel, J.
——, Transvaal.—Hall, A. L., 2 & 4; Horwood, C. B., 2; Kynaston, H., 3.
——, Tyrol.—Ampferer, O., 2; Skeats, E. W.
Dolomitic limestone, Hanover.—Hœfer, H.
Dome-structure, Nevada.—Gilbert, G. K.
Domeykite.—Stevanovič, S., 2.
Dömsöd (Hungary).—Gull, W.
Don R. (Yorks.). — Carter, W. L., 2 & 3.
Donauwörth (Bavaria). — Ammon, L. von, 2.
Donax.—Etheridge, R., *fil.*, 3.
Doncaster (Yorks.).—Davison, C.
Donegal (Ireland).—Cole, G. A. J.
Dorchester (Dorset).—Reid, C., 5.
Dordogne caves (France).—Capitan, L., 3 & 4.
Dorset.—Fisher, O., 2; Reid, C., 3–5; Woodward, A. S.
Dorsetensia.—Buckman, S. S.
Doryple & *Dorysphæra.*—Squinabol, S., 3.
Dosinia - deposits, Denmark. — Nordmann, V., 3.

Douai (Nord).—Cornet, J., 5.
Doubs (France).—Merle, A.
Doughty Springs (Colo.).—Headden, W. P.
Doughtyite.—Headden, W. P., 2.
Douglas I. (Alaska).—Kinzie, R. A.; Spencer, A. C., 2.
Dover (Kent).—Anon., 17; Dawkins, W. B.; Thompson, R. R.
Downs, Berkshire.—Treacher, L.
Drainage, New York State.—Tarr, R. S.
Drakensberg Mts. (S. A.).—Du Toit, A. L., 2.
Drawings in Dordogne cave.—Capitan, L., 4.
Dredging, gold-.—Postlethwaite, R. H.
Drepanaspis.—Traquair, R. H., 5.
Drepanura.—Woodward, H., 2.
Dresden (Saxony).—Hausse, R.
Drift, England (Central & Southern).—Salter, A. E.
——, Herefordshire. — Aldis T. S.; Grindley, H. E.; Moore, H. C., 3.
——, Lincolnshire & Yorkshire. — Stather, J. W.
——, Prussia.—Grœnwall, K. A.
——, Stour Valley.—Whitaker, W., 2.
——, Thames Valley.—Leach, A. L.
——. *See also* Quaternary, *&c.*
Drillia.—Clark, W. B.; Morgan, J. de, 2.
Drôme (France).—Jacob, C., 2.
Dromillopus & Dromopsis.—Matthew, G. F., 2.
Drumlins, Michigan.—Russell, I. C., 2.
——. *See also* Moraines, *&c.*
'Druridge' Valley (Northumberland).—Woolacott, D.
Druse-minerals.—Hobbs, W. H., 3; Zambonini, F., 2.
Dubesty (Hungary).—Kadic, O.
Dublin Co. (Ireland).—Matley, C. A.
Dubostica (Bosnia).—Baumgærtel, B.
Dufet, M. *Obit*.—*See* Lapparent, A. de, 4; Wyrouboff, G.
Dufile (Lado Enclave).—Preumont, G. F. J.
Dulichium.—Hartz, N., 3.
Dumball I. (Avonmouth).—Bolton, H.
Dumfries sandstone.—Anon., 25.
Dumortieria.—Benecke, E. W.; Buckman, S. S.; Prinz, G., 2; Schaller, W. T.
Duncan Creek (Yukon Terr.).—Bell, R.
Dunderland (Norway).—Wilkinson, W. F.
Dunedin (Otago).—Marshall, P.
Dunes, Holland.—Dubois, E., 3.
Dungeness (Kent).—Wilson-Barker, D.
Dunite, Otago.—Marshall, P., 2.
——, Ural Mts.—Duparc, L., 3 & 4.
Dunkard Formation, Maryland.—Jones, T. R., 2.
Dunwich (Suffolk).—Spiller, J.
Durdham Downs (Somerset).—Short, A. R.
Durham.—Stobbs, J. T., 2; Woolacott, D.
Düsseldorf (Rh.-Pruss.).—Kœnen, K.
Dust-fall, England (S.W.).—Fryer, A. C.
——, Palermo.—Meunier, S., 2.
Dwyka Beds.—Rogers, A. W., 4.
—— Conglomerate. — Corstorphine, G. S.; Mellor, E. T., 1 & 2; Philippi, E., 6.
Dybowskiella.—Stuckenberg, A.
Dykes, Ithaca.—Barnett, V. H.
——, Mysore.—Wetherell, E. W., 3.
——, New South Wales.—Morrison, M.
——, petroleum in volcanic.—Lakes, A., 3.
Dynamometamorphism, mineralogy &.—Spezia, G., 2.
Dysodile, Soleure.—Rollier, L., 4.

Earlston (Berwickshire).—Goodchild, J. G., 4.
Earth, age of the.—Sollas, W. J.
——, axes of the.—Lecrenier, A.
——, consolidation of the.—Irving, A., 2.
——, crust of the.—Arldt, T.; Chree, C.; Davis, W. M.; Fisher, O., 6; Leduc, A.; Marsh, D. B.; Van Hise, C. R., 2.
—— deformation, climate &. — Penck, A., 2.
——, earthquake-waves &.—Hogben, G., 2; Lapparent, A. de, 3.
——, —— & interior of the.—Láska, W., 2.
——, figure of the.— Bianco, O. Z.; Sollas, W. J.; Reibisch, P.
——, land & sea.—Arldt, T.
—— movements, British Isles.—Strahan, A.
——, movements of surface.—Guenther, R. T.; Hogben, G., 3; Lapparent, A. de, 5; Launay, L. de, 4; Strahan, A., 5; *see also* Land, changes of level of.
——, nebular theory &.—Mistockles, N.
——, origin of the.—Becker, G. F.; Fairchild, H. Le R., 2; Frazer, P., 2; Lobley, J. L.; Nicita, F.; Upham, W.
—— -pillars.—Guenther, S.
—— pressure, Keuper rocks of Eldersfield.—Richardson, L., 6.
——, rigidity of the interior.—Irving, A.; See, T. J. J.
——, surface of the. — Herbertson, A. J.
——, underground temperature. — Everett, J. D.
Earthquake-observatory, Shide.—Milne, J., 3.
—— waves.—Benndorf, H.; Fisher, O., 4; Harboe, E. G.; Hogben, G., 2; Knott, C. G.; Lapparent, A. de, 3; Láska, W., 2; Rudzki, M. P.
Earthquakes, Austria.—Mojsisovics, E. von; Schwab, P. F.
——, Bavaria.—Reindl, J., 1–3.
——, Belgium.—Lagrange, E.
——, Carniola & Styria.—Hœrnes, R., 2.

Earthquakes, Cornwall. — Davison, C., 2.
——, Derbyshire.—Davison, C., 4.
——, distribution of. — Montessus de Ballore, F. de, 2.
——, earth's interior &.—Láska, W., 2.
——, Essex.—Davison, C., 5.
——, Galicia.—Láska, W.
——, Guatemala.—R. D.
——, guide for observers of.—Gerland, G.
——, Hautes-Pyrénées.—Mascart, —.
——, investigations on.—Davison, C., 6; Milne, J., 3; Omori, F.
——, Japan.—Kikuchi, D.; Omori, F., 1–3.
——, Kangra Valley. — Anon., 21; Koken, E.; Holland, T. H.
——, Kashmir.—Clements, H.
——, Lahore.—Moureaux, T., —.
——, Leicestershire.—Davison, C., 3.
——, Macedonia.—Hœrnes, R.
——, Missouri.—Shepard, E. M.
——, New Zealand.—Hogben, G., 1–4.
——, Ponza Is.—Mercalli, G.
——, Prussia.—Jentzsch, A., 3.
——, rainfall &.—Clements, H.
——, Russian Baltic Provinces.—Doss, B.
——, Stromboli &.—Lacroix, A., 15.
——, twin.—Davison, C., 5.
——, Upsala.—Stolpe, P.
——, volcanoes &.—Lorenzo, G. de, 10.
——, West Indies.—Montessus de Ballore, F. de.
——, Yorkshire.—Davison, C., 1 & 2.
East Indies, tin in the.—Fawns, S., 2.
—— ——. *See also* Borneo, *&c.*
Easton (Pa.).—Peck, F. B.
Ebermannstadt (Bavaria) earthquake, 1625.—Reindl, J., 3.
Eberstadt (Darmstadt).—Klemm, G., 4.
Eberswalde-Thorn Valley (Prussia).—Keilhack, K., 2; Maas, G.
Ecca Beds. — Corstorphine, G. S.; Rogers, A. W., 4.
Echinanthus & *Echinobrissus*.—Loriol, P. de, 2.
Echinoidea, Carboniferous.—Stobbs, J. T.
——, Cretaceous.—Airaghi, C.; Bather, F. A., 4; Gauthier, V.; Hucke, W.; Lambert, J.; Loriol, P. de, 2; Masias, M. G., 2; Spencer, W. K.; Weller, S., 3; Wilckens, O.
——, Devonian.—Bather, F. A., 2.
——, Jurassic.—Gauthier, V., 2; Remeš, M.
——, Tertiary.—Airaghi, C; Clark, W. B.; Dainelli, G.; Fourtau, R.; Kilian, W., 2; Loriol, P. de, 2; Newton, R. B., 6.
Echinolampas.—Loriol, P. de, 2.
Eclogite, Gross - Venediger. — Weinschenk, E., 2.
——, Switzerland.—Hezner, L.
Ecphora.—Clark, W. B.
Ecuador (S. Am.).—Wolff, F. von.
Edenite.—Roccati, A., 3.
Edentata, Santa Cruz Beds.—Scott, W. B.
Edenvale Caves (Clare).—Scharff, R. F.
Edinburgh (Scotland).—Peach, B. N., 3; Traquair, R. H., 3.
Edriocrinus.—Talbot, M.
Egg-case, Chimæroid.—Gill, T.
Égravats ravine (Puy - de - Dôme). — Lauby, A.
Egypt.—Andrews, C. W., 1 & 2; Barrois, C.; Barron, T.; Beadnell, H. J. L., 1 & 2; Bonnet, E.; Fourtau, R.; Hohler, T. B.; Lucas, A.; Pachundaki, D. E.; Stewart, C. E.; Stromer E., 3 & 4; Ugolini, R.
Eifel (Rh.-Pruss.). — Greenly, E., 2; Jækel, O., 6.
Eifelian fault, Liége.—René d'Andrimont, 3; Lohest, M.
Eifelosaurus.—Jækel, O., 6.
Eigg, I. of (Hebrides).—Harker, A.; Taylor, H.
Ejutla (Mex.).—Villarello, J. D., 3.
Elands River (Transvaal).—Kynaston, H., 6; Mellor, E. T., 3.
Elandsfontein (Transvaal). — Johnson, J. P.
Elaphis.—Stefano, G. de.
Elba, I. of.—Achiardi, G. d'; Cortese, E.; Ermisch, K.
Elbe estuary, coast - changes. — Beyschlag, F.; Hansen, R.
Elbe R. (Germany).—Schucht, F.
Elberfeld (Rh.-Pruss.).—Kœnen, K.
Elburz Mts. (Persia).—Morgan, J. de.
Eldersfield (Worcester). — Richardson, L., 6.
Eleana.—Bode, A.
Electra.—Canu, F.
Elephas. — Arnold-Bemrose, H. H.; Bate, (Miss) D. M. A., 2; Puccione, N.
—— *meridionalis*, at Dewlish.—Fisher, O.
Elizabetpol (Transcaucasia). — Kœller, G.
Ellesmere Land (Arctic).—Nathorst, A. G.
Ellipsocephalus.—Wiman, C., 2.
Ellipsoxiphus.—Squinabol, S., 3.
Elmira (N.Y.).—Clarke, J. M., 9.
Elmshorn (Schleswig-Holstein).—Gagel, C., 2 & 4.
Elopopsis.—Fritsch, A., 2.
Elotherium.—Sinclair, W. J.
Elterlein (Saxony).—Beck, R., 2.
Emarginula.—Clark, W. B.; Deninger, K.
Embleton (Northumberland). — Goodchild, J. G., 5.
Emilia (Italy).—Pantanelli, D.; Stefani, C. de, 2.
Emmonsite.—Hillebrand, W. F.
Ems (Nassau).—Fresenius, H.
Enargite.—Headden, W. P., 2; Moses, A. J.
Enclosures, igneous rock. — Romeu, A. de.

Endothiodon.—Broom, R., 5.
Engadine (Grisons).—Tarnuzzer, C.
Engihoule (Liége).—Lohest, M.
England, coast-erosion.—Carey, A. E.
——, mines, &c.—Home Office, 1-4.
——. *See also* British Isles, Geological Survey, *&c.*
Engravings, stone-age.—Anon., 22.
Enstatite, Caernarvon.—Elsden, J. V., 4.
—— -diorite, Pembrokeshire.—Elsden, J. V., 2.
Entogonites.—Kittl, E.
Entomis.—Loomis, F. B.
Entomostraca, Jurassic.—Richardson, L.
Entoptychus.—Sinclair, W. J.
Entraigues Valley (Savoy).—Fliche, P., 2.
Envellier (Berne).—Rollier, L.
Eocardia.—Scott, W. B., 2.
Eocene, Dalmatia.—Dainelli, G.; Schubert, R. J., 1, 2, & 7; Stefani, C. de.
——, Egypt.—Beadnell, H. J. L.
——, Florence.—Pasquale, M., 2.
——, Istria.—Manek, F.; Moser, L. K.; Schubert, R. J., 2 & 7.
——, Morocco.—Brives, A.
——, New Caledonia.—Deprat, J., 7.
——, Nigeria.—Newton, R. B.
——, Noirmoutier I.—Bonnet, E., 2.
——, Switzerland.—Stehlin, H. G.
——, Syracuse.—Checchia-Rispoli, G.
——. *See also* Tertiary.
Eoliths, Kent.—Larkby, J. R., 1 & 2.
——, origin of.—Boule, M., 6.
Eosphœniscus.—Wiman, C., 4.
Eotomaria. Raymond, P. E., 2.
Eozoon-limestone, Côte St. Pierre.—Preiswerk, H., 2.
Epernay (Marne).—Leriche, M.
Epidavros (Peloponnesus).—Deprat, J.
Epidote, Inverness-shire.—Thomas, H. H.
Epipeltephilus.—Ameghino, F., 7.
Éply (Meurthe-et-Moselle).—Zeiller, R., 3.
Epistreptophyllum.—Koby, F.
Equus.—Gidley, J. W.; Lambe, L. M., 4 & 5; Osborn, H. F., 2; Reche, O.
——. *See also* Horse, *&c.*
Erebus, Mt. (Antarctic).—Scott, R. F.
'Erebus' & 'Terror' Gulf (Antarctic).—Wiman, C., 4.
Erethizon.—Allen, J. A.
Ericeira (Estremadura).—Choffat, P.
Erie, L. (N. Am.).—Kraus, E. H.
Eriphyla.—Etheridge, R., *fil.*, 3.
Erith (Kent).—Leach, A. L.
Erosion, Alpine.—Daly, R. A., 3.
——, Antarctic wind.—Philippi, E., 3.
——, atmospheric, &c.—Wilson-Barker, D.
——, ice.—Fairchild, H. L., 3; *see also* Glacial, &c.
——, rain.—Guenther, S.
——, river.—Yachevski, L., 2.
——. *See also* Coast, &c.
Erratic blocks, British Isles.—Kendall, P. F.
—— ——, origin of Alpine.—Meunier, S., 4.
Erseklél (Hungary).—László, G. von.
Erycina.—Clark, W. B.
Erycites.—Prinz, G., 2.
Erzberge (Styria).—Redlich, K. A.
Erzgebirge (Saxony).—Baumgærtel, B., 3; Beck, R., 1 & 2; Kliver, —; Mann, O.; Reindl, J., 2; Seebohm, —; Viebig, W.
——(Transylvania).—Roth von Telegd, L.
Eschara.—Péron, A.
Eschscholtz Bay (Siberia).—Maddren, A. G.
Esino R. (Italy).—Moderni, R.
Esna (Nile Valley).—Beadnell, H. J. L.
Essex.—Biddell, E.; Davison, C., 5; Irving, A., 3; Salter, A. E.; Thresh, J. C.; Woodward, H. B., 4.
Essexite, Bohemia.—Hibsch, J. E., 3.
Estagel (Pyrénées-Orientales).—Mengel, O.
Estheria.—Richardson, L.
Estheriella-Shales, Malay Peninsula.—Jones, T. R.; Newton, R. B., 2.
Estremadura (Portugal).—Choffat, P., 1-2 & 4.
Euganean Hills (Venetia).—Squinabol, S., 3.
Étampes Valley (Seine-et-Oise).—Courty, G.
Etna (Sicily).—Rovereto, G., 3.
Etoblattina.—Meunier, F., 2.
Etruria-Marl Group.—Kidston, R.
Ettingshausen, C. von. *See* Krasser, F.
Eubrachiosaurus.—Williston, S. W.
Eucentrurus.—Traquair, R. H., 2.
Euchitonia.—Squinabol, S.
Euclase.—Kœchlin, R., 2.
Eucyclus & Eulima.—Blake, J. F., 2.
Eucyrtidium.—Clark, W. B.; Squinabol, S., 3.
Eucytherura.—Lienenklaus, E.
Eugranite, Brocken massif.—Erdmannsdœrffer, O. H., 3.
Eukrite, meteoritic.—Berwerth, F.
Eumorphotis.—Bœhm, J.
Eumylodon.—Ameghino, F., 7.
Eunema.—Hudson, G. H.; Raymond, P. E., 2.
Euphemus.—Stobbs, J. T.
Euphoberia.—Woodward, H., 4.
Euphotide. *See* Gabbro.
Europe, International geological map.—Beyschlag, F., 2.
——, Keuper-transgression in.—Tornquist, A., 5.
Europium.—Urbain, G.
Eurycare.—Persson, E.
Eurypterus.—Sarle, C. J.
Eusigmomys.—Ameghino, F., 8.
Euspatangus.—Loriol, P. de, 2.
Euspira.—Newton, R. B., 6.
Eusyringium.—Squinabol, S., 3.
Everett, J. D., *Obit.*—*See* Perry, J.

Evi, L' (Fribourg).—Musy, M.
Evolution of species.—Eastman, C. R., 4; Raulin, V.
——, Tertiary mammals.—Boule, M., 4 & 5; Depéret, C., 2–4.
Exeter (Devon).—Rowe, J. B.
Exhibition, St. Louis, 1904.—Bauerman, H.
Experimental orography. — Avebury, Lord.
Eyzies, Les (Dordogne).—Capitan, L., 3.
Èze (Alpes-Maritimes).—Ambayrac, —., 2; Bertrand, L., 10.

Færöe Is.—Dodd, R.; Hartz, N., 2; Heddle, M. F.; Thoroddsen, T., 2.
Fagus.—Palibin, I. V.
Fareham (Hants).—Whitaker, W., 6.
Faringdon (Berks).—Wright, J.
Fassa Valley (Tyrol).—Proboscht, H.
Faults, Aix-la-Chapelle.—Forir, H.
——, New York overthrust.—Schneider, P. F.
—— & folds, Yonne.—Lemoine, P., 6; *see also* Eifelian, &c.
Favia.—Koby, F.
Favosites.—Thomas, I.
Faxö (Denmark).—Nœrregaard, E. M., 2.
Fayum (Egypt).—Beadnell, H. J. L., 2.
Fee Glacier (Valais).—Bonney, T. G., 9.
Feher-Körös District (Hungary).—Palfy, M. von.
Felis.—Arnold-Bemrose, H. H.
Fellabrunn (Lr. Austria).—Vetters, H.
Felsite, Fife.—Elsden, J. V., 3; Joly, J.
——, Transvaal.—Hall, A. L.; Mellor, E. T., 3.
Felsitic slates, Snowdon.—Dakyns, J. R.
Felspars.—Gonnard, F., 1 & 2; Johansson, H. E., 1 & 2; Melczer, G., 1 & 2; *see also* Anorthite, Labradorite, Perthite, *&c.*
——, chemical constitution of.—Tschermak, G.
——, high-temperature research on. — Harker, A., 4.
——, isomorphism of.—Day, A. L.
Fenestella.—Cumings, E. R., 1 & 2.
Ferguson, W. *Obit.*—*See* Anon., 4; Marr, J. E.
Fergusonite, Ceylon.—Coomáraswámy, A. K., 4.
Fernando de Noronha I. (Atlantic). — Wilson-Barker, D.
Fern Pass (Tyrol).—Ampferer, O., 4 Rose, —.
Ferronitrite.—Scharizer, R.
Ferrous sulphate, Thames goldfield.—Paul, M.
Ferru, Mte. (Sardinia).—Dannenberg, A.
Ferto', Lake (Hungary).—Szontagh, T. von.
Ffestiniog Group, Merioneth.—Fearnsides, W. G.
Fibroferrite.—Headden, W. P., 2.
Fibula.—Fittipaldi, E. U.
Fichtelgebirge (Bavaria).—Reindl, J., 2.
Ficopsis.—Weaver, C. E.
Fife.—Anon., 29; Elsden, J. V., 3; Joly, J.; Smith, W. G.; Wilson, J. S. G.
Figeac (Lot).—Lévy, Aug. M., 4.
Findhorn R. (Scotland).—Teall, J. J. H., 2.
Finger Lakes (N.Y.).—Dryer, C. R.
Finkenwalde (Pomerania).—Deecke, W., 2.
Finmark (Norway). — Hackman, V.; Simmersbach, B., 2.
Fiodhaig, Loch (Sutherland).—Murray, Sir J., 3.
Fire-clays, Missouri.—Wheeler, H. A.
—— -damp, Lorraine.—Laur, F., 3.
Fischerina.—Stuckenberg, A.
Fish-otolites, Tertiary.—Schubert, R. J., 8.
Fishers I. (N.Y.).—Fuller, M. L.
Fishes, Carboniferous.—Branson, E. B.; Gibson, W., 2; Tornquist, A., 4; Traquair, R. H., 1 & 2.
——, Cretaceous.—Choffat, P.; Fritsch, A., 2; Hucke, W.; Musy, M.; Osborn, H. F., 6; Ridewood, W. G.; Sauvage, H. E., 3; Sternberg, C. H.
——, ——, egg-case of.—Gill, T.
——, Devonian. — Drevermann, F., 2; Jækel, O., 5; Lankester, E. R.; Traquair, R. H., 3–5.
——, fossil, & South African recent.—Boulenger, G. A.
——, Jurassic. — Bassani, F.; Blake, J. F., 2; Sauvage, H. E., 1–3; Woodward, A. S.
——, Permo-Carboniferous.—Seward, A. C., 3.
——, Quaternary.—Lœnnberg, E., 2.
——, Silurian.—Lankester, E. R.; Traquair, R. H., 6.
——, Tertiary.—Bassani, F., 1–3, 5, & 6; Boulenger, G. A.; Clark, W. B.; Leriche, M., 2; Pasquale, M., 1 & 2; Priem, F.; Romanovski, G. D.; Simionescŭ, I.; Stefano, G. de, 2; Stromer, E., 1–3; Toula, F.
——, Triassic.—Bassani, F., 4; Eastman, C. R., 2; Fraas, E.; Gorjanović, —; Kramberger, K.; Lomas, J.
Fishguard (Pembroke).—Elsden, J. V., 2.
Fitz-Gerald, E. A. *See* Bonney, T. G., 6.
Fitz-James implement - station, near Clermont (Oise).—Capitan, L., 2.
Fjords, origin of.—Upham, W., 2.
Flabellum.—Clarke, E.; Dennant, J.
Flagstone, Pretoria.—Tweddill, S. M.
Flamborough Head (Yorks). —Hobson, B.
Flanders.—René d'Andrimont, 1 & 2; Van Ertborn, O., 4.
Flechtingen (Magdeburg).—Wiegers, F.
Flints, decalcification &.—Meunier, S., 5.
——, Egypt.—Pachundaki, D. E.
——, origin of.—Sollas, W. J.
——, Paris Basin.—Meunier, S., 5.
Flitwick (Beds).—Hopkinson, J.
Flocke, F. A. *Obit.*—*See* Waagen, L.

Florence (Tuscany).—Pasquale, M., 2; Stefani, C. de, 4.
Florida (U.S.A.).—Fuller, M. L., 2-4.
Flower, Sir W. H. *Obit.*—*See* Cornish, C. J.
Fluorspar, Illinois, &c.—Bain, H. F., 2; Day, D. T.
Flustrina.—Péron, A.
Flysch, Austria (Lr.).—Abel, O., 3.
——, Bavaria.—Fink, W., 1 & 2.
——, Bosnia.—Schiller, J.
——, Cretaceous ophitic.—Sacco, F., 5.
Fœtorius.—Nehring, A.
Foldings, reversed, Carpathians.—Murgoci, G. M., 2-4.
——, ——, Montagne Noire.—Bergeron, J.
——, ——, Piedmont.—Lugeon, M., 3 & 4; Stella, A., 2.
——, ——, Spain.—Almera, J.; Nicklès, R.
——, ——, Spoleto.—Lotti, B.
——, ——, Tyrol.—Grossouvre, A. de, 2.
Folds, Alps.—Simoëns, G., 2.
——, faulted.—Cornet, J., 2.
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Footprints, Carboniferous Batrachian.—Matthew, G. F., 2.
——, human Tertiary.—Branco, W.
——, Jura-Trias of N. America.—Lull, R. S.
——, Triassic.—Lomas, J.
Foraminifera, Cretaceous.—Gough, G. C.; Hucke, W.; Kemna, A.; Schlumberger, C., 2; Wright, J.
——, dimorphism of.—Lister, J. J., 2.
——, Jurassic.—Brueckmann, R.; Schlumberger, C., 3.
——, Quaternary.—Jensen, H. I.
——, Tertiary.—Chapman, F., 2 & 3; Checchia-Rispoli, G., 2; Clark, W. B.; Douvillé, H., 5; Gentile, G.; Kemna, A.; Lemoine, P., 5; Lister, J. J., 1 & 2; Neviani, A., 3; Newton, R. B., 6; Prever, P. L., 1-3; Schlumberger, C.; Schubert, R. J., 1 & 2; Silvestri, A., 1 & 2; Stache, G.; Steuer, A., 2; Wójcik, K.
——. See also *Orbitoides*, &c.
'Forest Bed,' Dutch Campine.—Dubois, E., 1 & 4; Velge, G., 1 & 2.
Forfarshire.—Dow, R.; Smith, W. G.
Forni (Venetia).—Gortani, M.
Fortuna Valley (Heidelberg).—Luttman-Johnson, H.
Fossil genera and species in New York State Museum.—Ellis, (Miss) M.
'Fossiliferous' gneiss, &c.—Squinabol, S.
Fossils, study of.—Woodward, A. S., 2.
Foster, Sir C. Le N. *Obit.*—*See* Jennings, H., 2; Judd, J. W.; Rickard, T. A.
Fouqué, F. A. *Obit.*—*See* Gaubert, P., 2; Lévy, Aug. M.; Teall, J. J. H., 3; & Termier, P., 3.
Fowler, P. *Obit.*—*See* Marr, J. E.
Frabosa Cave (Udine).—Issel, A., 4.
France. *See* Nord, Provence, *&c.*
Franche-Comté (France).—Fournier, E., 2; Girardot, A.
Frank (Alberta).—Jacobs, E.
Franklin (Canada).—Bell, R.
Franz-Josef Adit, Ischl.—Aigner, A.
Frate Valley (Lombardy).—Taramelli, T., 3.
Frauenstein (Wiesbaden).—Schœndorf, F.
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Frechiella.—Prinz, G., 2.
French Guinea (W. Africa).—Lacroix, A., 12 & 16.
Fribourg (Switzerland).—Hofmann, W.
Frobisher Bay (Baffin Land).—Emerson, B. K.
Frohnalp (Schwyz).—Arbenz, P.
Frombachia.—Blaschke, F.
Frondicularia.—Brueckmann, R.; Hucke, W.
Fuchsite.—Bell, R.
Fucoid-'borings.'—Fuchs, T., 3.
Fulda Valley (Hesse).—Lang, O.
Fulgurites.—Platania, G.
——, artificial.—Tchirvinski, P. N., 2.
Fungidæ.—Vaughan, T. W.
Fumerolles, Mont Pelé.—Lacroix, A., 6.
Funafuti Atoll (Pacific).—Sollas, W. J.
Fünfstetten am Ries (Bavaria).—Ammon, L. von, 2.
Fürfeld (Hesse).—Schopp, H.
Furrowed stone from Dahomey.—Bœhm, J., 4.
Fusulinella.—Morgan, J. de, 2.
Fusus.—Deninger, K.; Gregorio, A. de; Weaver, C. F.; Wilckens, O.
Fyen (Denmark).—Madsen, V.

Gabbro, Borneo.—Easton, N. W.
——, Bosnia.—Schiller, J.
——, Brocken massif, &c.—Erdmannsdœrffer, O. H., 1 & 3.
——, Caucasus.—Lœwinson-Lessing, F., 2.
——, coarseness of.—Lane, A. C.
——, Cyprus.—Duke, J. C.
——, Gothland.—Gavelin, A., 2.
——, Graian Alps.—Hezner, L.
——, Guinea.—Lacroix, A., 12.
——, Pembrokeshire.—Elsden, J. V., 2.
——, Piedmont.—Roccati, A.
——, Transvaal.—Hall, A. L., 2.
——, Tuscany.—Ugolini, R., 3.
——, Urals.—Duparc, L., 4, &c.
Gacko (Bosnia).—Hawelka, V.
Gadolinite.—Hidden, W. E.
Gaima, Mt. (Congo Free State).—Preumont, G. F. J.
Galena, British Columbia.—Robertson, W. F.
——, Caracoles.—Labastie, F.
——, Grisons.—Kœnigsberger, J., 2.
——, Wisconsin.—Hobbs, W. H.
——. *See also* Lead.

Galeocerdo.—Clark, W. B.; Stromer, E., 3.
Galicia (Austria). — Friedberg, W.; Guerich, G.; Láska, W.; Loziński, W. von; Wiśniowski, T.; Wójcik, K., 1 & 2.
Gallberg (Hanover).—Wunstorf, W.
Gallo Mte. (Palermo).—Gregorio, A. de, 3.
Galway (Ireland).—Anon., 26.
Gambier Is. (Pacific).—Agassiz, A.
Gangamopteris.—Seward, A. C., 3.
Gänsbrunnen (Soleure).—Schmidt, C.
Gaping-Ghyll cavern (Yorks.).—Dwerryhouse, A. R.
Gard (France).—Lambert, J.; Lodin, A.; Sayn, G.
Garnet.—Yachevski, L.
——, copper associated with.—Smith, G.
Garnet-formation, Queensland.—Smith, G.
Garnets, Ceylon.—Coomáraswámy, A. K., 3; Dunstan, W. R., 5.
——, Dartmoor.—Evans, H. M.
Garnierite.—Deprat, J., 4.
Gas (natural), British Columbia.—Ashworth, J., 2.
—— (—), Canada.—Anon., 20.
—— (—), Indiana.—Kinney, B. A.
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—— (—), New York.—Bishop, I. P.
—— (—), United States, production of.—Day, D. T.
—— (volcanic).—Brun, A., 2.
Gaspé (Quebec).—Clarke, J. M., 7.
Gassino (Piedmont).—Bassani, F., 2.
Gasteropoda, Carboniferous.—Hind, W., 2; Reis, O. M.: Stobbs, J. T.
——, Cretaceous.—Deninger, K.; Etheridge, R., *fil.*, 3; Fittipaldi, F.; Péron, A.; Wilckens, O.
——, Devonian. — Loomis, F. B.; Thomas, I.
——, Jurassic.—Bellini, R., 3; Blake, J. F., 2; Clerc, M.; Krumbeck, L.
——, Ordovician.—Raymond, P. E., 2.
——, *Pachycardium*-tuff.—Read, A.
——, Permian.—Martelli, A.
——, Quaternary.—Newton, R. B., 4; Shimek, B., 1 & 2.
——, Silurian.—Donald, (Miss) J., 1 & 2; Hudson, G. H.
——, Tertiary.—Andreæ, A; Bellini, R.; Clark, W. B.; Gregorio, A. de; Hall, T. S., 3; Hutton, F. W., 3; Locard, A.; Menzel, H., 2; Morgan, J. de, 2; Newton, R. B., 1, 3, 5, & 6; Weaver, C. E.
——, Triassic.—Blaschke, F.; Bœhm, J.; Mariani, E., 2.
Gastrioceras.—Stobbs, J. T.
Gatactochilus.—Andreæ, A.
Gaude, La (Alpes-Maritimes). —. Ambayrac, —.
Gault, Pomerania.—Hucke, K.
Gazella.—Schlosser, M.
Gedern - Grebenhain Ry. (Hesse). — Schottler, W., 2.
Geer R. (Belgium). — Kræntzel, F.; Lacomble, J.
Gehlenite.—Hlawatsch, C.
Geilnau (Hesse).—Chelius, C., 3.
Gellivaara (Sweden). — Bygdén, A.; Wilkinson, W. F.
Gemmellaro, G. G. *Obit.*—*See* Bucca, L.
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Genoa (Liguria). — Issel, A., 3 & 5; Sacco, F., 5; Taramelli, T., 5.
Genoa-Po Ry. (Italy).—Stefani, C. de, 3.
Geography, field-work.—Gulliver, F. P., 2.
——, systematic.—Herbertson, A. J.
——. *See also* Internat. Cat. Sci. Lit.
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—— exterminations.—Warring, C. B.
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—— Magazine, Index, 1864–1903. — Woodward, (Mrs.) E. S.
—— map, New York State.—Merrill, F. J. H.
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—— —— & sections, line-drawing for.—Daly, R. A.
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—— ——, France.—Boule, M., 2.
—— ——, German (Berlin), Silesian excursion. — Dathe, E.; Flegel, K.; Frech, F., 4–6; Friedrich, E. G.; Sturm, F.
—— ——, Italy.—Clerici, E., 4.
—— ——, Servia.—Stevanovič, S.
—— ——, South Africa.—Sawyer, A. R.
—— Survey, Algeria.—Ficheur, E., 2 & 3; Jacob, C., 4.
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—— text-books. — Chamberlin, T. C.; Frech, F., 7; Geikie, J.; Kayser, E.; Lapparent, A. de, 5; Launay, L. de, 4; Marr, J. E., 4; Weinschenk, E.
Geology, Africa, S.—Corstorphine, G. S.; Hatch, F. H., 4; Rogers, A. W., 4; Wilman, (Miss) M.
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——, art &.—Lorenzo, G. de, 11.
Geology, atmosphere &.—Stevenson, J.
——, Canada, 1903.—Ami, H. M., 2.
——, chemistry &.—Van't Hoff, J. H.
——, classical authors &.—Lorenzo, G. de.
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——, text-books of. *See* Geological.
——. *See also* International Catalogue of Scientific Literature, *&c.*
Geophysics.—Becker, G. F.
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Germany. *See also* Moraines, Potash, Prussia, Quaternary, Salt, *&c.*
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Glacial deposits, Ayrshire.—Smith, J., 5.
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—— lakes, Champlain Valley.—Upham, W., 3.
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—— striæ, Flechtingen Culm.—Wiegers, F.
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Guinea, French (W. Africa).—Lacroix, A., 12 & 16.
Gully, The (Durdham Downs).—Short, A. R.
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——, dolomite, Wietze, with.—Hœfer, H.
——, Doubs.—Merle, A.
——, Kansas.—Grimsley, G. P.
——, Livonia.—Sodoffski, G.
——, Montana.—Rowe, J. P.
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——, New Mexico.—Brady, F. W.
——, Queensland.—Dunstan, B.
——, United States.—Day, D. T.
——, Wisconsin.—Hobbs, W. H., 3.
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Gyrinus.—Njœberg, E.
Gyrolite.—Currie, J.; Schaller, W. T., 3.
Gyronema.—Donald, (Miss) J., 2.
Gwelo (Rhodesia).—Parsons, C. E.

Haardt district (Germany).—Benecke, E. W., 2.
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Hadid, Jebel (Morocco).—Fischer, T.; Lemoine, P.
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Hampstead (London).—Reader, T. W.
Hamstead or Hempstead (I. of Wight). —Hunt, A. R., 4.
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Hanover (Germany). — Beyschlag, F.; Gagel, C.; Hœfer, H.; Kœnen, A. von, 3; Menzel, H.; Ochsenius, K.; Wunstorf, W.
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Hérault (France).—Nicklès, R., 2.
Herefordshire.—Aldis, T. S.; Grindley, H. E.; Herries, R. S., 2; Moore, H. C., 1–3.
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Heur-le-Tiexhe R. (Limburg). — Lacomble, J.
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Hudson Valley (N.Y.).—Dale, T. N.; Peet, C. E.; Upham, W., 3.
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—— ——, California. — Knopf. A.; Osmont, V. C.
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—— ——, felspars in.—Johannson, H., 1 & 2.
—— ——, Fife.—Elsden, J. V., 3; Joly, J.
—— ——, Hesse. Chelius, C., 2, 3, & 5.
—— ——, Kirghiz District.—Jeremina, (Mrs.) E.
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—— ——, Moldau Valley.—Klvana, J.
—— ——, Montana.—Pirsson, L. V., 2.
—— ——, mountains and.—Burckhart, C.
—— ——, Mysore.—Wetherell, E. W., 3.
—— ——, Nevada.—Smith, D. T.
—— ——, New Brunswick.—Bailey, L. W.
—— ——, New Hampshire. — Pirsson, L. V., 3.
—— ——, New Zealand.—Marshall, P., 1 & 2; Rastall, R. H., 2; Sollas, W. J., 2.
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—— ——, percentages of components.—Williams, I. A.
—— ——, Perm.—Duparc, L., 3 & 4; Fedorov, E. von, 2.
—— ——, Perthshire.—Barrow, G.
—— ——, Quebec.—Adams, F. D.
—— ——, Rhenish Prussia.—Chelius, C., 4.
—— ——, Rum (I. of).—Harker, A., 5.
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—— ——, tridymite in.—Lacroix, A., 5.
—— ——, Tripoli.—Manasse, E., 2.
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Illinois (U.S.A.).—Bain, H. F., 1 & 2; Fuller, M. L., 2–4; Weller, S., 4; Willcox, O. W., 2.
Ilmenite, Balaton (Lake) District.—Vitalis, S.
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Ivory Coast (W. Africa).—Hamy, E. T.; Truscott, S. J.

Jackson Co. (Kan.), fossil trees.—Shattuck, C. H.
Jade.—Berwerth, F., 2; Hezner, L.; Kunz, G. F.
Jækelocystis.—Schuchert, C.
Jaën (Andalusia).—Douvillé, R.
Jakuben (Bohemia).—Cornu, F., 2.
Jamberoo (N.S.W.).—Jaquet, J. B.
Janosite.—Bœckh, H., 3.
Japan.—Fawns, S., 2; Iki, T.; Kikuchi, D.; Milne, J.; Ogawa, T.; Omori, F., 1–3; Otsuki, Y.; Yokoyama, M.

Japan, magnetic survey of.—Tanakadate, A.
——. *See also* Geological Survey, *&c.*
Jarosite.—Hillebrand, W. F., 3.
Java (D.W.I.).—Volz, W.
Jemtland (Sweden).—Munthe, H.
Jena (Germany).—Wagner, R.; Walther, K.
Jenolan Caves (N.S.W.).—Etheridge, R., *fil.*, 4.
Jessnitz (Anhalt).—Linstow, O. von, 2.
Jinetz (Bohemia).—Liebus, A.
Johannesburg (Transvaal).—Johnson, J. P.
Johanngeorgenstadt (Saxony). — Beck, R., 2; Viebig, W.
John-Day Series.—Sinclair, W. J.
Jointing, in Chalk.—Epps, C. H. H.
Joints, simultaneous rock-.—Becker, G. F., 2.
Judd, J. W. *See* Anon., 13.
Judith River-Beds (Montana).—Stanton, T. W.
Jura district, ancient lakes of the.—Bourgeat, —, 2.
——, French.—Bourgeat, —; Fournier, E., 2 & 3; Loriol, P. de.
——, Swiss.—Æberhardt, B.; Clerc, M.; Jenny, F.; Machaček, F.; Muehlberg; Rollier, L., 1, 3, & 7; Schardt, H., 2.
——, Würtemberg.—Kranz, W.
Jurassic, Alpes-Maritimes. — Bertrand, L., 1–10; Guébhard, A., 4 & 6.
——, Apennines.—Bellini, R., 3.
——, Austria (Lr.).—Vetters, H.
——, Baltic Provinces. — Brueckmann, R.
——, Basilicata.—Lorenzo, G. de, 1 & 2.
——, Boulonnais.—Sauvage, H. E.
——, Bulgaria.—Bakalow, P.
——, Calvados.—Bigot, A., 5.
——, Carpathian Mts. (S.).—Simionescŭ, I., 3.
——, Crimea.—Missuna, A.
——, Dauphiné.—Deprat, J., 3; Lory, P., 1 & 2.
——, Franche-Comté.—Girardot, A.
——, German East Africa.—Kœrt, W.
——, Glamorgan.—Richardson, L., 3 & 4.
——, Greece.—Renz, C.
——, Hanover.—Wunstorf, W.
——, Hérault.—Nicklès, R., 2.
——, Hungary.—Aradi, V.; Prinz, G., 2.
——, Japan.—Yokoyama, M.
——, Lombardy.—Bettoni, A.; Cacciamali, G. B., 2.
——, Lorraine & Luxemburg (Duchy of).—Benecke, E. W.
——, Madagascar.—Douvillé, H., 2.
——, Morocco.—Gentil, L., 4.
——, Neuchâtel.—Clerc, M.; Juillerat, E.
——, New Mexico.—Keyes, C. R., 2.
——, Oxfordshire.—Lamplugh, G. W., 4; Walford, E. A., 1 & 2.
——, Persia.—Morgan, J. de, 2.
——, Poitiers.—Fournier, A.
Jurassic, Portugal.—Choffat, P., 2 & 4; Koby, F.
——, Prussia (E.), &c.—Brueckmann, R.; Krause, G.
——, Pyrenees.—Roussel, J.
——, Rumania.—Simionescŭ, I., 2.
——, Sardinia.—Tornquist, A., 1 & 3.
——, Siberia.—Zalesski, M. D.
——, Sicily, &c.—Gregorio, A. de, 2.
——, Somerset.—Tutcher, J. W.; Vaughan, A., 3.
——, Spitsbergen.—Stevenson, J. J., 2.
——, Swiss Jura. — Æberhardt, B.; Schardt, H., 2.
——, Syria.—Krumbeck, L.
——, Tunis.—Gauthier, V., 2.
——, Tuscany.—Fucini, A., 2; Ugolini, R., 2.
——, Umbria.—Lotti, B.
——, Valais.—Collet, L. W.
——, Westphalia.—Meyer, E.; Schlunck, J.
——, Yorkshire.—Rastall, R. H.
Jussey (Haute-Saône).—Laurent, A.
Jutland (Denmark).—Bœggild, O. B.

Kadabek (Perm. Gov.).—Fedorov, E. von, 2.
Kæch, M. *Obit.*—*See* Schmidt, C., 2.
Kahla (Weimar).—Wagner, R.
Kaibab Plateau (Arizona).—Jennings, E. P.
Kainite.—Baumgærtel, B., 2.
Kaiseregg Mt. (Fribourg).—Hofmann, W.
Kalahari Desert (Bechuanaland).—Passarge, S.
Kalgoorlie (W. Austral.).—Saunders, W. T.
'Kalkberg' (Raspenau).—Richter, K.
Kalstad (Trondhjem).—Kiær, J.
Kaltenleutgeben (Lower Austria). — Richarz, P. S.
Kamburg (Weimar).—Wagner, R.
Kamenka (Siberia).—Meister, A., 2.
Kangra-Valley earthquake (Himalayas). —Anon., 21; Holland, T. H.; Koken, E., 2.
Kansas (U.S.A.).—Adams, G. I., 2; Barrow, E., 2; Bartow, E., 1 & 2; Beede, J. W.; Darton, N. H.; Emmons, S. F., 2; Grimsley, G. P., 1 & 2; Jones, A. W.; Kneer, E. B.; Macfarland, D. F.; Prosser, C. S.; Reagan, A. B., 4; Smith, A. J.; Shattuck, C. H.; Sternberg, C. H.; Wieland, G. R.; Willard, J. T.; Wooster, L. C.
Kaolin, Broken Hill.—Walpole, G. S.
——, Ceylon.—Dunstan, W. R., 5.
——, origin of.—Weyberg, Z.
——, Saxony.—Seemann, —; Stutzer, O.; Winkler, M.
Karakoram Himalaya (Kashmir). — Workman, W. H.
Karben, Gross (Hesse).—Steuer, A., 2.
Karroo System, Cape Colony.—Corstorphine, G. S.; Hatch, F. H., 4; Rogers, A. W.

Karroo System, Transvaal.—Corstorphine, G. S.; Hall, A. L.; Hatch, F. H., 4; Kynaston, H., 2; Mellor, E. T., 1–3.
—— (Lower) reptilia.—Broom, R., 1–7; Jækel, O.; Seeley, H. G., 1–3.
——. *See also* Dwyka, *&c.*
Kashmir(India).—Clements, H.; Seward, A. C., 3; Wardle, Sir T.; Workman, W. H.
Katanga (Congo Free State).—Buttgenbach, H., 2, 3, & 5.
Katuni (Dalmatia).—Kerner, F. von, 3.
Kazanesd (Hungary).—Lackner, A.
Kedabeg (Elizabetpol).—Kœller, G.
Keele Group.—Kidston, R.
Keewatin (Canada).—Bell, R.
Kehdinger Moor (Hanover).—Beyschlag, F.
Keighley (Yorks).—Jowett, A.
Kellia.—Clark, W. B.
Kelloway Rock, German East Africa.—Kœrt, W.
Kelty (Fife).—Anon., 29.
Kennet R.—Salter, A. E.
Kent.—Anon., 17; Dawkins, W. B.; Dibley, G. E., 1 & 2; Larkby, J. R., 1 & 2; Leach, A. L.; Salter, A. E., 1 & 4; Thompson, R. R.; Whitaker, W., 7; Wilson-Barker, D.; Woodward, A. S., 3.
Kentucky (U.S.A.).—Fuller, M. L., 2–4; Williams, H. S.
Kephalonia I. (Ionian Is.).—Keser, J.
Keramosphæra.—Stache, G.
Keratophyre, Bohemia.—Graber, H. V., 2.
——, Wisconsin.—Weidman, S.
Kerbi R. (Siberia).—Ivanov, M.; Yavorovski, P.
Kerguelen Land (Antarctic).—Philippi, E., 4.
Kern Basin, Upper (Cal.).—Lawson, A. C.
Kerosene-shale, New South Wales.—Pittman, E. F.; *see also* Petroleum, *&c.*
Kerunia.—Nopcsa, F., 2.
Kesslerloch Cave (Schaffhausen).—Meister, J.
Keszegfalva (Hungary).—Timkó, E.
Kettenjura (Switzerland).—Muehlberg, F.; Wepfer, G.
Keuper, Chepstow.—Richardson, L., 9.
——, Haute-Saône.—Laurent, A.
——, Worcestershire.—Richardson, L., 6.
Keuper bone-bed, Bohemia.—Jahn, J. J., 2.
—— Marls, colour of.—Moody, G. T.
—— -transgression, Europe.—Tornquist, A., 5.
Keweenewan, Lake-Superior region.—Lane, A. C., 2.
Keynsham (Somerset).—Vaughan, A., 3.
Khatanga R. (Siberia).—Schmidt, F. von, 4.
Kiama (N.S.W.).—Jaquet, J. B.
Kieserite.—Van't Hoff, J. H., 2.
Kieslingswalde (Silesia).—Sturm, F.
Kiev Gov. (Russia).—Theophilakov, K.
Kilauea (Hawaii).—Hitchcock, C. H., 2.
Kilkee (Clare).—Hind, W., 2.
Kimberley (Cape Colony).—Bonney, T. G., 9; Buttgenbach, H., 1 & 4; Williams, G. F.
Kimmeridge Clay, E. Prussia.—Krause, G.
Kinderhook Creek (N.Y.).—Dale, T. N.
—— faunas, Mississippi Valley.—Weller, S., 4.
—— shales, Iowa.—Beyer, S. W., 3.
Kingena.—Krumbeck, L.
Kingsbridge (Devon).—Ussher, W. A. E., 1 & 3.
Kington (Hereford).—Herries, R. S., 2.
Kirghiz District (Asia).—Jeremina, (Mrs.) E.; Palibin, I. V.
Kirmington (Lincs).—Stather, J. W.
Kirn (Rhen.-Pr.).—Chelius, C., 4.
Kirunavaara (Sweden).—Wilkinson, W. F.
Klaus-Beds, Carpathian Mts. (S.).—Simionescŭ, I., 3.
Klerksdorp (Transvaal).—Molengraaff, G. A. F.
Klingenthal (Saxony).—Baumgærtel, B., 3; Beck, R., 2.
'Klippen,' Alps (W.).—Sandberg, C. G. S.
——, Bohemia—Jahn, J. J.
——, Bukowina.—Vetters, H., 2.
——, Dalmatia.—Schubert, R. J., 4.
——, Lake-Lucerne district.—Tobler, A., 2.
Klondyke (N.W. Canada).—Obalski, T.; Purington, C. W., 2.
Kluane, Lake (Yukon Terr.).—Bell, R.
Knittelfeld (Styria).—Zeleny, V.
Kniveton (Derby).—Crick, G. C., 2.
'Knollensteine.'—Deecke, W., 2.
Knolls near Rorschach.—Frœh, J.
Knysna (Cape Colony).—Schwarz, E. H. L., 3 & 4.
Kochendorf (Würtemberg).—Stettner, G.
Kochites.—Prinz, G.
Kola Penin. (Russia).—Hackman, V.
Kolar goldfield (Mysore).—Smith, A. M.
Komárom (Hungary).—László, G. von; Timkó, E.
Königs-Wusterhausen (Brandenburg).—Schrœder, H., 2.
Koninckophyllum.—Stuckenberg, A.; Vaughan, A.
Koninckella.—Rau, K.
Korea (Asia).—Bauer, L.; Carles, W. R.; Speak, S. J.
Korlat (Dalmatia).—Schubert, R. J., 4.
Kornhuber, A. *Obit.*—*See* Vacek, M.
Körös R. (Hungary).—Pálfy, M. von.
Kosel Mt. (Bohemia).—Fœrster, B.
Koslin (Pomerania).—Schneider, O.
Kostenblatt (Bohemia).—Hibsch, J. E., 2.
Kostroma (Russia).—Artemiev, D. N.

Koswite, Urals.—Duparc, L., 4.
Kotel (Bulgaria).—Bakalow, P.
Kralup (Bohemia).—Klvana, J.
Krambergeria.—Simionescŭ, I.
Kranspoort (Transvaal).—Mellor, E. T., 7.
Kremsmünster (Austria).—Schwab, P. F.
Kromau (Moravia).—Suess, F. E., 6.
Kuba (Caucasus).—Volarovitch, P.
Kuchavelli (Ceylon).—Coomáraswámy, A. K., 2.
Kuchelbad (Bohemia).—Katzer, F., 2.
Kühetaler Berg, Œtz Valley, Alps.—Ohnesorge, T.
Kunzite.—Baskerville, C.

Labrador (Canada).—Tarr, R. S., 2.
Labradorite.—Luczizki, W., 2.
—— -porphyry, Westphalia.—Leclerq, H.
Labyrinthodontidæ.—Branson, E. B., 2.
Laccolite, Weitendorf granite (Styria).—Hilber, V.
Laccolites, Montana.—Pirsson, L. V., 2.
Lad, Piz (Grisons).—Tarnuzzer, C.
Lado Enclave (Equatorial Africa).—Preumont, G. F. J.
Ladrone Is. (Pacific).—Safford, W. E.
Ladysmith Pit (Cumberland).—Dodds, R., 2.
Laeken (Brabant).—Halet, F.
Lagain, Loch an (Sutherland).—Murray, Sir J., 3.
Lagena.—Hucke, W.
Lagenostoma.—Arber, E. A. N., 4; Oliver, F. W.; Scott, D. H., 5.
Lagomys.—Major, C. I. F.
Lagonegro (Basilicata).—Lorenzo, G. de.
Lagoons of Lake Upemba (Congo).—Buttgenbach, H., 5; Cornet, J., 4.
Lagorai, Cima di (Tyrol).—Trener, G. B.
Lagos (Nigeria).—Bellamy, C. V.; Dunstan, W. B., 7.
Laharpeia.—Prever, P. L.
Lahore (Panjab).—Moureaux, T.
Laibach (Carniola).—Kossmat, F.
Lake-basins, Germany (N.).—Kaunhowen, F., 2.
Lake-district, Ireland.—Howarth, O. J. R.
Lake District, minerals of English.—Rudler, F. W., 3.
Lake, Lisbon Pleistocene.—Hull, E.
Lake-temperatures, Sweden.—Grenander, S.
Lakes, Denmark.—Wesenberg-Lund, C.
——, glacier-bound.—Rabot, C.
——, Jura ancient.—Bourgeat, —, 2.
——, marine fauna in.—Ochsenius, C., 2.
——, New York 'finger'-.—Dryer, C. R.
——, Scotland.—Wesenberg-Lund, C.
——, Silesian ancient.—Friedrich, E. G.
——, Upsala.—Geer, S. de.
——. *See also* Lochs, *&c.*
Lamellibranch-shell torsion.—Clarke, J. M., 6.
Lamellibranchia, Carboniferous.—Frech, F.; Gibson, W., 2; Hind, W., 2; Kœnen, A. von, 2; Stobbs, J. T.
——, Cretaceous.—Dacqué, E.; Dainelli, G., 2; Etheridge, R., *fil.*, 3; Morgan, J. de, 2; Petraschеck, W., 4; Schmidt, F. von, 2; Toucas, A., 1 & 2; Weller, S.; White, C. A., 2; Wilckens, O.; Woods, H.
——, Devonian.—Loomis, F. B.
——, Jurassic.—Allen, H. A.; Bellini, R., 3; Benecke, E. W.; Clerc, M.; Dacqué, E., 2; Krumbeck, L.; Loriol, P. de; Vetters, H.; White, C. A., 2.
——, Ordovician.—Raymond, P. E., 2; Reed, F. R. C.
——, Permian.—Schmidt, A.
——, Quaternary.—Jensen, A. S.; Newton, R. B., 4.
——, Rhætic.—Richardson, L., 3.
——, Silurian.—Hudson, G. H.
——, Tertiary.—Bellini, R.; Bœhm, J., 4; Cerulli-Irelli, S.; Clark, W. B.; Dainelli, G.; Gregorio, A. de; Hutton, F. W., 3; Newton, R. B., 1, 3, & 6; Osmont, V. C., 2; Park, J.; Weaver, C. E.; White, C. A., 2.
——, Triassic.—Benecke, E. W., 2; Bœhm, J., 1 & 3; Galdieri, A., 2; Picard, E.
Lamma.—Stromer, E., 3.
Lamprophyre, Sardinia.—Riva, C.
Lampusia.—Newton, R. B., 3.
Lancashire.—Bolton, H., 2; Dawkins, W. B., 2 & 3; Gerrard, J.; Gibson, W.; Kidston, R.; Reade, T. M.; Woodward, H., 4.
Land, changes of level.—Jamieson, T. F., 2; Nansen, F.; Négris, P., 1 & 2; Rowe, J. B.; Spencer, J. W., 2; Wilson-Barker, D.; *see also* Earth-movements.
—— -ice, Siberia.—Maddren, A. G.
——, pre-Southern Atlantic.—Schwarz, E. H. L., 6.
—— & sea, distribution of.—Arldt, T.
Landelies (Hainault).—Brien, V., 2.
Landenian, Hainault.—Rutot, A., 2; *see also* Tertiary.
Landes, Les (France).—Labrie, J.
Landeshut (Silesia).—Schmidt, A., 2.
Landgraf springs (Homburg v. d. Höhe).—Fresenius, H.
Landskron (Bohemia).—Tietze, E.
Landskrona (Scania).—Tœrnebohm, E.
Landslip, Edermannstadt, 1625.—Reindl, J., 3.
——, Woolhope District.—Moore, H. C., 2.
Landslips, Mieminger terrace (Tyrol).—Ampferer, O., 2.
Langogne (Lozère).—Kilian, W., 2.
Langport (Somerset).—Woodward, H. B., 7.
Languedoc (France).—Bergeron, J., 1 & 2; Lévy, Aug. M., 4; Mengel, O.; Nicklès, R., 2; Sayn, G.; Stehlin, H. G., 3.

Lankofl massif (Tyrol). — Skeats, E. W.
Lanna (Nerike).—Wiman, C.
Lannemezan (Hautes-Pyrénées). — Boule, M.
Lanzo Valley, Piedmont.—Novarese, V.
Laos, French (Cochinchina).—Gascuel, L., 2.
Lapland (Swedish).—Bæckström, H.
Laramie Formation, Wyoming. — Hatcher, J. B.; Lull, R. S.
Laramie Mts. (Wy.).—Kemp, J. F.
Larche (Basses-Alpes).—Lévy, Aug. M., 4.
Lasanius.—Traquair, R. H., 6.
Laterite, Bombay.—Warth, H.
——, Ceylon.—Dunstan, W. R., 5.
Latimæandra.—Koby, F.
Laurionite.—Cesàro, G.
Lautaret Valley (Hautes-Alpes).—Fliche, P., 2.
Lava-domes, Eifel.—Greenly, E., 2.
—— -spray, Java.—Volz, W.
Laval (Mayenne).—Œhlert, D. P.
Lavas, Ararat.—Bonney, T. G., 2.
——, Cairo & Suez.—Barron, T.
——, Cavan (N.S.W.).—Shearsby, A. J., 2.
——, Ischia.—Dell' Erba, L.
——, New Zealand.—Rastall, R. H., 2; Sollas, J. W., 2.
——, Pembrokeshire.—Elsden, J. V., 2.
——, Santorin.—Lacroix, A., 14.
——, Vesuvius.—Matteucci, R. V., 1–4.
Lavernock Point (Glamorgan).—Richardson, L., 3.
Lawrence Co. (N.Y.).—Logan, W. N.
Lawsonite.—Schaller, W. T., 4; Termier, P., 2.
Laziali, Colli (Rome).—Angelis d'Ossat, G. de, 2; Clerici, E.; Verri, A., 2–4.
Lead, Arkansas.—Adams, G. I.
——, British Columbia.—Attwood, G.; Robertson, W. F.
——, Chile.—Labastie, F.
——, Elba.—Ermisch, K.
——, Great Britain.—Home Office, 4.
——, Illinois.—Bain, H. F.
——, India.—Rudra, S. C.
——, Missouri.—Ball, S. H.
——, Murcia.—Pilz, R.
——, New South Wales.—Pittman, E. F.
——, Siberia.—Friz, W.; Spring, R., 2.
——, Silesia.—Guerich, G., 2; Michel, R.; Sachs, A., 2.
——, Sweden.—Sundbærg, G.
——, Tunis.—Jecker, L.
——, Tuscany.—Ermisch, K., 2.
——, Tyrol.—Rose, —.
——, United States.—Day, D. T.; Emmons, S. F., 2.
——, Utah.—Boutwell, J. M.
Leadhillite.—Jecker, L.
Leads, Victoria deep.—Lindgren, W.
Leaf-variations, palæobotany &.—Penhallow, D. P.
Lebanon Mts. (Syria).—Krumbeck, L.
Lecco (Lombardy).—Wilmer, F.
Leda. — Clarke, E.; Loriol, P. de; Wilckens, O.
Leeward Is. (W.I.).—Hœgbom, A. G., 4.
Leicestershire.—Davison, C., 3; Roechling, H. A., 1–3; Salter, A. E.; Strangways, C. F., 2; Watts, W. W., 3.
Leine Valley (Hanover).—Menzel, H.
Leipa (Bohemia).—Fœrster, B.; Graber, H. V., 2.
Leipteria.—Stobbs, J. T.
Leitha-limestone, Moravia.—Rzehak, A.
Lelant (Cornwall).—Stephens, F. J.
Lemberg (Galicia).—Láska, W.
Lemesa (Ufa Gov.).—Krasnopolski, A.
Lemur, fossil. — Lorenz von Liburnau, L.
Lena district (Siberia).—Gerasimov, A.
Lengenbachite.—Solly, R. H.
Leoben (Styria).—Hofmann, A., 2.
Leonite.—Van't Hoff, J. H., 2.
Leperditia.—Raymond, P. E., 2.
Lepidocyclina.—Chapman, F.; Lemoine, P., 4 & 5.
Lepidodendron.—Smith, B.
——, nomenclature of.—Fischer, F.
Lepidolite.—Bell, R.; Schaller, W. T., 2 & 3.
Lepidophloios.—Weiss, F. E.
Lepidopus.—Bassani, F., 3.
Lepocrinites.—Schuchert, C.
Lepralia.—Clark, W. B.; Neviani, A., 2.
Leptocyathus.—Dennant, J.
Leptophyllia.—Koby, F.; Missuna, A.
Leptoplastus.—Persson, E.
Leptoseris.—Dainelli, G.
Lerida (Catalonia).—Sauvage, H. E., 2.
Lesley, J. P. *Obit*.—*See* Lyman, B. S.
Lesménils (Meurthe-et-Moselle). — Zeiller, R., 3.
Lesse R. (Belgium).—Deladrier, E.
Lessö I. (Kattegat).—Nordmann, V.
Letky (Bohemia).—Klvana, J.
Letterston (Pembroke).—Thomas, H. H., 2.
Leuca, Cape (Italy).—Dainelli, G., 2.
Leucas (Greece).—Renz, C.
Leucite.—Colomba, L.; Langguth, E.
Leucotephrite, Phlegræan Fields. — Manasse, E
Leval (Hainault).—Rutot, A., 1 & 3.
Lewisham (Kent).—Salter, A. E., 4.
Leysin (Vaud).—Douvillé, H., 8; Renevier, E.; Rœssinger, E.
Lias, Apennines, central.—Bellini, R., 3.
——, Brunswick.—Bode, A.
——, Dorset.—Woodward, A. S.
——, Gloucestershire.—Richardson, L., 1, 3. & 4.
——, Greece.—Renz, C.
——, Hérault.—Nicklès, R., 2.
——, Hungary.—Aradi, V.
——, Lombardy.—Cacciamali, G. B., 2.

Lias, Lorraine & Luxemburg (Duchy of).—Benecke, E. W.
——, Oxfordshire.—Walford, E. A., 2.
——, Portugal.—Choffat, P., 2.
——, Sicily.—Gregorio, A. de, 2.
——, Somerset.—Woodward, H. B., 7; Vaughan, A., 3.
——, Tuscany.—Fucini, A., 1 & 2; Ugolini, R., 2.
——, type-specimens.—Allen, H. A.
——, Yorkshire.—Rastall, R. H.
——. *See also* Jurassic.
Libethenite.—Cesàro, G., 2; Lindgren, W., 3; Schaller, W. T., 3.
Libokwa (Congo Free State).—Preumont, G. F. J.
Lichas.—Reed, F. R. C.
Liége (Belgium).—René d'Andrimont, 3; Lespineux, G.; Lohest, M.; Stainier, X.
Liesing R. (Lr. Austria).—Toula, F., 2.
Lightning Creek, Cariboo (B.C.).—Atkin, A. J. R.
Lignite, Dakota (N.).—Wilder, F. A.
——, Guam I.—Safford, W. E.
——, Rhenish Prussia.—Velge, G., 1 & 2.
Liguria (Italy).—Issel, A., 1, 3, & 5; Sacco, F., 5; Taramelli, T., 5.
Lille (Nord).—Deblon, A.
Lima. — Bœhm, J.; Dacqué, E., 2; Krumbeck, L.; Petrascheck, W., 4; Richardson, L., 3; Wilckens, O.
Limber, Great (Lincs).—Stather, J. W.
Limburg (Belgian). — Krætzel, F.; Lacomble, J.; Mourlon, M., 2; *see also* Campine.
—— (Dutch). — Dewalque, G.; Dubois, E., 1 & 4; Uhenbroek, G. D.; Velge, G., 1–3.
Limburgite, Paraguay.—Milch, L.
Limerick (Ireland).—Teall, J. J. H., 2.
Limestones, Capri Cretaceous.—Angelis d'Ossat, G. de.
——, Carboniferous. *See* Carboniferous.
——, crystalline, Ceylon. — Coomáraswámy, A. K., 4.
—— ——, Minas Geraes.—Hussak, E.
——, Doubs.—Merle, A.
——, Düsseldorf Devonian.—Kœnen, K.
——, Kalstad.—Kiær, J.
——, Kansas.—Smith, A. J.
——, Lias.—Woodward, H. B., 7.
——, Missouri.—Buckley, E. R., 2.
——, New York.—Hopkins, T. C.; Sarle, C. J., 2.
——, Ohio.—Prosser, C. S., 2.
——, Pennsylvania.—Clapp, F. G.
——, Pyrenees.—Roussel, J., 1 & 3.
——, Rejstrup.—Madsen, V.
——, Somaliland.—Newton, R. B., 6.
——, Virginia.—Campbell. H. D.
——. *See also* Lithographic, *&c.*
Limestone-schist complex, Raspenau.—Richter, K.
Limmat Valley (Switzerland).—Muehlberg, F.
Limnicythere.—Lienenklaus, E.; Sieber, —.
Lincolnshire.—Preston, H.; Stather, J. W.; Woodward, H. B., 9.
Lindenkohl, A. *Obit.*—*See* Ogden, H. G.
Line-drawing for geological maps, &c.—Daly, R. A.
Lingula.—Raymond, P. E., 2; Stobbs, J. T.; Wilckens, O.; Wiman, C., 2.
Lingulosmilia.—Koby, F.
Lion, cave-. — Boule, M., 3; Capitan, L., 4; see also *Machairodus.*
Liopleurodon.—Blake, J. F., 2.
Lioran (Cantal).—Romeu, A. de.
Liostrea.—Morgan, J. de, 2.
Liotina.—Newton, R. B., 6.
Lipari Is. (Mediterranean).—Anderson, T.; Lacroix, A., 15; Sollas, W. J.; Stark, M.; Yeld, G.
Lisbon (Portugal).—Delgado, J. F. N., 2; Hull, E.
Lissens (Ayr).—Smith, J.
Listriodon.—Ameghino, F., 7.
Lis-Werry (Mon.).—Richardson, L., 2.
Lithiotis.—Frech, F., 2.
Lithium, United States.—Day, D. T.
Lithium-alum-silicate.—Weyberg, Z., 2.
Lithocampe.—Clark, W. B.; Squinabol, S., 3.
Lithodomus.—Krumbeck, L.; Loriol, P. de.
Lithographic stone, Lerida.—Sauvage, H. E., 2.
Lithomespilus.—Squinabol, S., 3.
Lithophaga.—Clark, W. B.; Newton, R. B., 6.
Lithostrobus.—Squinabol, S., 3.
Lithostrotion.—Stuckenberg, A.
Lithothamnion, &c., magnesite &.—Vesterberg, A.
Little Falls (N.Y.).—Cushing, H. P.; Fairchild, H. L.
Littorina.—Blake, J. F., 2; Morgan, J. de, 2; Howorth, Sir H. H., 3.
—— -deposits, Baltic.—Howorth, Sir H. H., 3; Post, L. von.
Livonia (Russia).—Sodoffski, G.
Livornese Mts. (Tuscany).—Ugolini, R., ?.
Llanberis (Caernarvon).—Watts, W. W.
Llandeilo Group, Merioneth. — Fearnsides, W. G.
Llanelly (Caernarvon). — Strahan, A., 3.
Llanmartin (Mon.).—Richardson, L., 2.
Llano Co. (Texas).—Hidden, W. E.
Llanwern (Mon.).—Richardson, L., 2.
Llyfnaut, Moel (Merioneth).—Fearnsides, W. G.
Loboites.—Jækel, O., 3.
Lochs, Scottish freshwater. — Murray, Sir J., 1–3; Peach, B. N., 1 & 2; Wesenberg-Lund, C.
Lochwitz (Bohemia).—Ziebus, A.
Loddon R.—Salter, A. E.
Lœss, Iowa.—Beyer, S. W., 3; Willcox, O. W., 1 & 2.
——, Mississippi Valley.—Shimek, B.
——, Missouri.—Owen, (Miss) L. A.
——, origin of.—Wright, G. F.
——. *See also* Drift, *&c.*

Loftahammar (Gothland).—Gavelin, A., 1-3; Holmquist, P. J.
Loftusia.—Morgan, J. de, 2.
Lofty, Mt. (S. Austral.).—Howchin, W.
Loire Basin (France).—Dollfus, G. F., 2.
Lojano Hills (Emilia).—Roccati, A., 2.
Lombardy.—Cacciamali, G. B., 2; Hammer, W., 1 & 3; Prever, P. L., 2; Taramelli, T., 3; Wilmer, F.
Lomme R. (Namur).—Martel, E. A., 4.
Lomomys.—Scott, W. B., 2.
Long-Kloof Mts. (Cape Colony).—Schwarz, E. H. L., 3.
Longcliffe (Derby).—Arnold-Bemrose, H. H.
Longhope (Gloucester).—Callaway, C.
Longmynd (Salop).—Watts, W. W.
Lonsdalia.—Stuckenberg, A.
Lonzée (Namur).—Rutot, A., 6.
Lopha.—Morgan, J. de, 2.
Lophiotherium.—Stehlin, H. G., 3.
Lophoblastus.—Rowley, R.
Lophophylloides & *Lophophyllum.*—Stuckenberg, A.
Lophospira.—Raymond, P. E., 2.
Lorraine.—Bailly, L.; Benecke, E. W.; Cavallier, C.; Laur, F., 1-3; Lucke, O.; Nicklès, R., 3 & 4; Zeiller, R., 3 & 4.
Los Is. (French Guinea).—Lacroix, A., 16.
Lösch (Moravia).—Suess, F. E., 5.
Lot (France).—Lévy, Aug. M., 4.
Loughborough (Leicester).—Strangways, C. F., 2.
Louisiana (U.S.A.).—Fuller, M. L.; Hilgard, E. W.; Veatch, A. C.
Loup-Fork Beds, Nebraska.—Peterson, O. A.
Lowestoft (Suffolk).—Harmer, F. W.; Wilson-Barker, D.
Loxoconcha.—Lienenklaus, E.
Loxonema.—Donald, (Miss) J., 1 & 2; Mariani, E., 1 & 2; Stobbs, J. T.
Lübbecke (Westphalia).—Schlunck, J.
Lucca (Tuscany).—Ristori, G.
Lucerne, Lake of (Switzerland).—Pannekoek, J. J.; Tobler, A., 2.
Luchon Valley (Pyrenees).—Dop, P.
Lucina.—Dainelli, G.; Locard, A.; Morgan, J. de, 2; Newton, R. B., 6.
Lucy, Mt. (Queensl.).—Dunstan, B.
Ludlam collection.—Rudler, F. W., 3.
Ludlow (Salop).—Elles, (Miss) G. L.; Fortey, C.; Herries, R. S.
Lugau (Saxony).—Kliver, —; Seebohm, —.
Lully Limestone, New York.—Loomis, F. B.
Lund (Scania).—Tœrnebohm, E.
Lüneburg (Hanover).—Mueller, G.
Lunenburg (Germany).—Gagel, C.
Lunulicardium.—Clarke, J. M., 5.
Lunulites.—Canu, F.
Luossavaara (Sweden).—Wilkinson, W. F.
Luristan (Persia).—Morgan, J. de.
Lussin I. (Adriatic).—Waagen, L., 2.
Lutetian, estuarine fauna in.—Cayeux, L., 4; *see also* Tertiary, *&c.*
Lutra.—Matthew, W. D., 4.
Luz (Hautes-Pyrénées).—Carez, L.
Luzonite.—Moses, A. J.
Luxemburg, Duchy of.—Benecke, E. W.
Lychnocanium.—Squinabol, S., 3.
Lycopodites.—Seward, A. C.
Lydenburg (Transvaal).—Molengraaff, G. A. F., 2; Thord-Gray, I.
Lyell, Mt. (Cal.).—Lee, W. T.
Lyell, Mt. (Transv.).—Gregory, J. W.
Lyginodendreæ, seeds of.—Arber, E. A. N., 3.
Lyginodendron.—Kidston, R., 3; Nathorst, A. G.; Oliver, F. W.; Scott, D. H., 2.
Lyme Regis (Dorset).—Woodward, A. S.
Lyriocrinus.—Hudson, G. H.
Lyrolepis.—Romanovski, G. D.
Lys, R. (France).—Gosselet, J., 2.
Lytoceras.—Prinz, G., 2; Simionescŭ, I., 2; Wunstorf, W.
Lytoceratidæ, Jurassic.—Buckman, S. S., 2.
Lyttonia.—Nœtling, F., 3.

Maâdid, Jebel (Algeria).—Savornin, J.
Maccalley, H. *Obit.*—*See* Smith, E. A.
Macclean, F. *Obit.*—*See* Marr, J. E.
Macedonia (Turkey).—Hœrnes, R.
Machairodus.—Boule, M., 3; Capitan, L., 4; Merriam, J. C., 3.
Machimosaurus.—Blake, J. F., 2.
Mackenzie (Queensl.).—Cameron, W. E.
Macmahon, C.A. *Obit.*—*See* Bonney, T. G., 5.
Macoma.—Clark, W. B.; Jensen, A. S.
Macrocephalites.—Blake, J. F., 2.
Macrodon.—Bœhm, J.; Dacqué, E., 2.
Macromesodon.—Blake, J. F., 2.
Macrurus.—Schubert, R. J., 3.
Macskamezö (Hungary).—Kossmat, F.
Mactra.—Newton, R. B., 3.
Madagascar.—Baron, R.; Blake, G. S.; Douvillé, H., 2.
Madeira.—Harcourt, E. V.
Madeira R. (Bolivia).—Evans, J. W., 9.
Madras Pres. (India).—Vredenburg, E.
Madre, Sierra (Mexico).—Hovey, E. O., 2.
Magaliesberg Range (Transvaal).—Kynaston, H., 4.
Magdeburg (Prussia).—Jacob, T.; Linstow, O. von.
Magellania.—Hutton, F. W., 4.
Magmas, igneous rock-.—Daly, R. A., 2; Ditte, A.; Dœlter, C., 1, 2, & 4; Elsden, J. V., 2; Harker, A.; Johansson, H. E., 2; Miers, H. A.; Milch, L., 2; Morozevitch, I., 2; Park, J., 2; Pirsson, L. V.; Romberg, J.; Vogt, J. H. L., 1 & 2; Vukits, B.
Magnesian rocks, Otago.—Marshall, P. 2.
Magnesite.—Bœckh, H., 2; Day, D. T.

Magnesite, *Lithothamnion*, &c., and.—Vesterberg, A.
Magnetic iron-ore, Caucasus.—Terpigorev, A., 2; *see also* Magnetite.
—— ——, surveying.—Uhlich, P.
—— survey of Japan.—Tanakadate, A.
—— variation, Paris, Lahore earthquake &.—Moureaux, T.
Magnetite, Caucasus.—Yachevski, L., 3.
——, Styria.—Zeleny, V.
——, Utah.—Jennings, E. P., 2.
——, Wyoming.—Kemp, J. F.
Main R. (Germany).—Steuer, A., 3.
Maine (U.S.A.).—Emmons, S. F., 2; Smith, G. O.
Mainz Basin (Nassau).—Lienenklaus, E.; Schœndorf, F.
Majella, Mte. (Abruzzo).—Cassetti, M., 2.
'Majolica'-limestone.—Cacciamali, G. B.
Malachite.—Buttgenbach, H., 3; Cesàro, G.
Mälaren Lake (Svealand).—Lœnnberg, E., 2.
Malay Peninsula (Asia).—Dunstan, W. R., 2; Dykes, F. J. B.; Evans, J. W., 3; Fawns, S., 2; Jones, T. R.; Newton, R. B., 2; Scrivenor, J. B., 1, 2, 4, & 5; Taylor, W. T.
Maldives (Indian Ocean).—Fuchs, T., 4.
Maldon (Victoria).—Bradford, W.
Malle Valley (Alpes - Maritimes). — Guébhard, A., 6.
Malletia.—Wilckens, O.
Malmesbury Series.—Hatch, F. H., 4; Rogers, A. W., 4.
Malmö (Scania).—Tœrnebohm, E.
Malocystites.—Hudson, G. H.
Maloja (Grisons).—Finsterwalder, S.
Mammalia, Cretaceous.—Ameghino, F., 7; Hatcher, J. B.; Lull, R. S.
——, dentition of Patagonian fossil.—Gaudry, A.
——, evolution of fossil.—Boule, M., 4 & 5; Depéret, 2–4; Lankester, E. R.; Osborn, H. F., 11.
——, Jurassic.—Broom, R., 3 & 6.
——, marine fossil.—Fraas, E., 2.
——, Mexican fossil.—Osborn, H. F., 11.
——, perforate astragalus in.— Ameghino, F., 1–6.
——, Quaternary.—Arnold-Bemrose, H. H.; Bate, (Miss) D. M. A., 1 & 2; Furlong, E. L.; Janensch, W., 2; Major, C. I. F.; Munthe, H., 3; Nehring, A.; Reichenau, W. von; Sinclair, W. J., 2; Ussher, R. J.
——, restorations of fossil.—Osborn, H. F., 7.
——, Tertiary.—Abel, O., 1–5; Allen, J. A.; Ameghino, F., 1–6, 8, & 9; Andrews, C. W., 2; Beadnell, H. J. L., 2; Boule, M., 4 & 5; Depéret, C., 1–4; Gaudry, A., 1 & 2; Lambe, L. M., 1, 4, & 5; Loomis, F. B., 2; Lorenz von Liburnau, L.; Lull, R. S., 3; Matthew, W. D., 1–4; Merriam, J. C., 3; Osborn, H. F., 1, 2, 5, & 6; Peterson, O. A., 1 & 2; Pompeckj, J. F.; Schlosser, M.; Scott, W. B., 1–3; Sinclair, W. J., 1–3; Stehlin, H. G., 1–3; Studer, T.; True, F. W.; Vigliarolo, G.
Mammalia. *See also* Cetacea, *Mastodon*, &c.
Mammalian carpus & tarsus.—Broom, R., 3.
—— palæontology, N. America.—Osborn, H. F., 8.
Mammoth, Alaska, search for.—Maddren, A. G.
——, Belgian Limburg.—Mourlon, M., 2.
——, Co. Cork.—Ussher, R. J.
——, Northampton.—Thompson, B.
——, Siberia.—Herz, O. F.
Mamoré R. (Bolivia).—Evans, J. W., 9.
Man, advent of.—Marsh, D. B.
——, Cheddar.—Davis, H. M.
——, elephant-remains, Dewlish &. — Fisher, O.
——, fossil.—Lankester, E. R.
——, Mentone fossil.—Boule, M., 7.
——, New South Wales.—Etheridge, R., *fil.*, 4.
——, Quaternary.—Schenk, A.; Wilson, J. H.
——, Tertiary.—Branco, W.
——, West Kent prehistoric.—Larkby, J. R., 1 & 2.
Man, I. of.—Blake, J. F.
Manatus.—Abel, O.
Manchester (Lancs).—Dawkins, W. B., 3.
Manga Reva Is. (Pacific).—Agassiz, A.; Lévy, Aug. M., 2.
Manganese, Ceylon.—Dunstan, W. R., 5.
——, Cuba.—Souder, H.
——, Georgia.—Watson, T. L., 2.
——, Hungary.—Kossmat, F., 3.
——, India.—Rudra, S. C.
——, United States.—Day, D. T.; Emmons, S. F., 2.
Mangano-ferruginous film on desert rocks.—Lucas, A.
Mangilia.—Clark, W. B.
Mannheim (Baden).—Thuerach, H.
Mansergh, J. *Obit.*—*See* Anon., 6.
Mansfield (Vict.).—Howitt, A. M.
Manx slates & breccias.—Blake, J. F.

MAPS.

AFRICA (Equatorial).
Congo Free State (N.E.) and Lado Enclave. 1 inch=about 70 miles. 1905.—Preumont, G. F. J.
AFRICA (North).
Algeria. Service de la Carte géologique. $\frac{1}{50,000}$. Algiers *bis* & 84. Miliana. 1904.—Ficheur, E., 2 & 3.
——. Jebel Maâdid. $\frac{1}{200,000}$. 1904.—Savornin, J.
Egypt. Fayum Province, $\frac{1}{250,000}$ & Bone-bearing Localities, $\frac{1}{50,000}$. 1905.—Beadnell, H. J. L.

AFRICA (North).
Morocco. $\frac{1}{2,000,000}$. 1905.—Lemoine, P.
——. Ain Sefra. $\frac{1}{400,000}$. 1905.—Levat, D.
AFRICA (South).
Bechuanaland. 1 inch = about 10 miles.—Holmes, G. G.
——. Kalahari Desert. $\frac{1}{1,000,000}$. 1904.—Passarge, S.
Cape Colony. 1 inch=90 miles. 1905.—Rogers, A. W., 4.
——. Aliwal North, Herschel, Barkley East & part of Wodehouse. 1 inch=4 miles. 1905.—Du Toit, A. L.
——. Clan William. 1 inch=4 miles. 1905.—Rogers, A. W., 3.
——. ——. Van Rhyn's Dorp, &c. 1 inch=6 miles. 1905.—Rogers, A. W., 2.
——. Coalfields. 1 inch=15 miles & 1 inch=60 miles. 1905.—Russell, A.
——. Molteno (E. of). 1 inch=2 miles. 1904.—Anderson, W.
——. Priska. 1 inch = 10 miles. 1905.—Schwarz, E. H. L.
——. Stormberg Beds. 1 inch = about 1 mile. 1905.—Du Toit, A. L.
——. Willowmore, Uniondale, & Knysna, 1 inch = 12½ miles; & Long-Kloof Mts., 1 inch=2½ miles. 1905.—Schwarz, E. H. L., 3.
——, Natal, Orange-River Colony, Transvaal, &c. 1 inch=78·88 miles. 1905.—Hatch, F. H., 4.
Transvaal. 1 inch = 19·7 miles. 1905.—Hatch, F. H., 4.
——. Amsterdam Valley. 1 inch= about 4 miles. 1905.—Frames, M. E.
——. Bushveld Tinfields. 1 inch= 2¼ miles. 1905.—Hall, A. L., 3.
——. Heidelberg, Fortuna Valley. 1 inch=about 1 mile. 1905.—Luttman-Johnson, H.
——. Klerksdorp. 1 inch=2 miles. 1905.—Molengraaff, G. A. F.
——. Kromdraai, 1 inch=5000 ft.; & Johannesburg, 1 inch=10,000 ft. 1905.—Sawyer, A. R. See *Geol. Lit.* no. 11, Sawyer, no. 2. 1904.
——. Lydenburg Goldfields. 1 inch =8000 yards. 1905.—Thord-Gray, I.
——. Pretoria. 1¼ inches = 3 miles. 1905.—Hall, A. L.
——. —— District diamond-pipes. 1 inch=2·34 miles. 1904.—Kynaston, H., 5.
——. ——-Balmoral District Glacial Conglomerate. 1 inch=about 9 miles. 1905.—Mellor, E. T.
——. —— & Middelburg Districts, 1 inch=about 2¼ miles; *also* Pretoria & Waterberg Districts, 1 inch = about 2¼ miles. 1905.—Kynaston, H., 7.
AFRICA (South).
Transvaal. Rustenburg District. 1 inch=4 miles. 1905.—Holmes, G. G., 2.
——. Springbok Flats. 1 inch=6 miles. 1905.—Mellor, E. T., 4.
——. Witswatersrand Goldfield (southern). 1 inch = 3·8 miles. 1905.—Sawyer, A. R. See *Geol. Lit.* no. 11, Sawyer no. 3. 1904.
——. Zululand, 1 inch=5 miles; & Melmoth District, 1 inch=1½ miles. 1904.—Anderson, W.
AFRICA (S.W.), German. Namieb. $\frac{1}{800,000}$. 1905.—Voit, F. W.
AMERICA (North).
Alaska, mineral-deposits. 1 inch= 276 miles. 1905.—Brooks, A. H., 2.
——, petroleum-fields (*various*). 1905.—Martin, G. C.
——. Porcupine Placer-District. 1 inch = about 4 miles. 1904.—Wright, C. W.
——. York District. 1 inch=15 miles. 1905.—Fawns, S., 2.
Canada. Alberta. Costigan Coalfield. 1 inch=½ mile. 1905.—Bell, R., &c.
——. British Columbia. Nicola-Valley Coalfield. 1 inch=1 mile. 1905.—Bell, R.
——. Nova Scotia. Halifax Co. Moose-River Gold-District. 1 inch =175 feet. 1905.—Woodman, J. E.
——. ——. Nictaux & Torbrook Iron-Ore District. 3 inches=about 1 mile. 1905.—Bell, R.
——. Ontario. Bruce-Mines Bay. 1 inch=1½ miles. 1905.—Bell, R.
——. —— & Quebec. Mica-regions. 1 inch=3·95 miles. 1905. Cirkel, F., 2.
——. Quebec. Gaspe-Percé Rock and district. 3 inches=1 mile. 1905.—Clarke, J. M., 7.
——. Yukon Terr. Kluane Lake. 1 inch=6 miles. 1905.—Bell, R.
United States.
(Eastern) Underground Waters (*various*). 1905.—Fuller, M. L., 3.
Alabama. 1 inch=about 60 miles. 1905.—Lea, S. H.
——. Mississippi & part of Georgia. 1 inch=50 miles. 1905.—Eckel, E. C.
Arkansas. Chalk-region. 1 inch= 22 miles. 1905.—Eckel, E. C.
——. Twin-Lakes area. $\frac{5}{16}$=1 mile. 1905. Westgate. L. G.
California. Kern Basin (Upper). $\frac{1}{375,000}$. 1904.—Lawson, A. C.
——. Trinity R. Bragdon Formation. 1 inch=about 7 miles. 1905.—Diller, J. S.
Colorado. Gilpin Co. 1 inch = 3150 feet. 1904.—Collins, G. E.

AMERICA (North).
United States.
Dakota (N.). Lignite-occurrences. 1 inch=30 miles. 1905.—Wilder, F. A.
—— (—). Pembina District. 1 inch =about 2 miles. 1905.—Berkey, C. P.
—— (S.). Rosebud Indian Reservation. 1 inch=6 miles. 1905.—Reagan, A. B., 4.
Georgia. Bauxite-deposits. 1 inch =6 miles. 1904.—Watson, T. L.
——. Cartersville. 1 inch=3 miles; Cave Spring, 1 inch=3 miles. 1904. —Watson, T. L., 3.
——. Distribution of Carboniferous strata, 1 inch=7 miles; Coal-Measures of N.W., $1\frac{1}{4}$ inches=3 miles; Relation of Georgia Coalfields to those of Alabama & Tennessee, $\frac{1}{2}$ inch=about $9\frac{1}{2}$ miles; & Round Mt., Walker Co. (Ga.), $\frac{1}{2}$ inch=330 yards. 1904.—Maccallie, S. W.
Illinois (*various*). 1905.—Bain, H. F., 1 & 2.
—— & Kentucky Fluorspar-district (*various*). 1905.—Bain, H. F., 2.
—— & Missouri. 1 inch=20 miles. 1905.—Eckel, E. C.
Indian Territory. Arbuckle Mts. 1 inch = $5\frac{1}{2}$ miles. 1904.—Taff, J. A.
Indiana & Ohio. 1 inch=45 miles. 1905.—Eckel, E. C.
Iowa. $\frac{3}{4}$ inch=25 miles. 1905.—Eckel, E. C.
——. Drift & Solid. 1 inch = 18 miles. (Two maps.) 1904.—Calvin, S.
Kansas. Iola. 1 inch = 2 miles. 1904.—Adams, G. I., 2.
——. Reading Blue Limestone. 1 inch =4 miles. 1905.—Smith, A. J.
Kentucky & Tennessee. 1 inch= 50 miles. 1905.—Eckel, E. C.
Maine. Perry. 1 inch = 2 miles. 1905.—Smith, G. O.
Massachusetts. Glacial-Lake Sudbury. $\frac{7}{8}$ inch=1 mile. 1905.—Goldthwait, J. W.
Michigan. 1 inch=35 miles. 1905. —Eckel, E. C.
Missouri. 1 inch=18 miles. 1904. Buckley, E. R., 2.
——. Miller Co. 1 inch=$1\frac{1}{2}$ miles. 1903.—Ball, S. H.
Montana. Highwood Mts. 1 inch= 4 miles. 1905.—Pirsson, L. V., 2.
Nebraska &c. Central Great Plains. 1 inch = 20 miles, & 1 inch = 10 miles., 1905.—Darton, N.
Nevada. Walker River. 1 inch= about $2\frac{1}{2}$ miles. 1905.—Smith, D. T.
New Hampshire. Belknap Mts. 1 inch = 2 miles. 1905.—Pirsson, L. V., 3.

AMERICA (North).
United States.
New Jersey. Clay-bearing formations. 1 inch=5 miles. 1904.—Ries, H., &c.
——. Clay-formations near Keyport, &c. 1 inch=2000 feet; Middlesex Co. 1 inch=2000 feet; & Distribution of the Alloway Clay. 1 inch =1 mile. 1904.—Ries, H., 6.
New Mexico. Zuni Salt-Lake. 1 inch=2500 feet. 1905.—Darton, N. H., 3.
New York. Becraft Mt. 6 inches= 1 mile. 1903.—Grabau, A. W.
——. Canandaigua & Naples. 1 inch = 1 mile. 1904.—Clarke, J M., 8.
——. Cayuga Co. Auburn, and region about Union Springs. 1 inch= 1 mile. 1903.—Hartnagel, C. A.
——, Elmira, & Walkins districts. 1 inch=1 mile. 1905. — Clarke, J. M., 9.
——. Hudson-River Cement-district. 1 inch = 3 miles. 1905.—Eckel, E. C.
——. Hudson Valley between the Hoosic R. and Kinderhook. 1 inch =2 miles. 1904.—Dale, T. N.
——. Little Falls. 1 inch=1 mile. 1905.—Cushing, H. P.
——. Monroe Co. 1 inch=5 miles. 1904.—Sarle, C. J., 2.
——. Olean. 1 inch=1 mile. 1903. —Glenn, L. C., 2.
——. Orange Co. Trilobite Mt. 6 inches = 1 mile. 1905. — Shimer, H. W.
——. Portage Formation, western. 1 inch = about 8 miles. 1903.—Luther, D. D.
——. Rondout. 1 inch = 1 mile. 1903.—Ingen, G. V.
——. Salamanca Quadrangle. 1 inch =1 mile. 1905.—Glenn, J. C.
——. Syracuse. 1 inch = 3 miles. 1905.—Fairchild, H. L., 4.
——. Tully District. 1 inch=1 mile. 1905.—Clarke, J. M., 10.
Oklahoma. Wichita Mts. 1 inch =$3\frac{1}{2}$ miles. 1904.—Taff, J. A.
Pennsylvania. Bituminous coalfields of Pennsylvania. 1 inch = 4 miles. 1904. — Halberstadt, B.
——. Lehigh District. 1 inch=$2\frac{1}{2}$ miles. 1905.—Eckel, E. C.
—— (S.W.). 1 inch = 19 miles. 1905.—Clapp, F. G.
Texas. 1 inch=54 miles. 1905.—Eckel, E. C.
——. El Paso & Reeves Cos. 1 inch =19 miles. 1905.—Emmons, S. F., 2.
Utah. Bingham Cañon District. 1 inch = 1700 feet. 1905.—Boutwell, J. M.

AMERICA (North).
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Wisconsin. Baraboo Bluffs. 1½ inch = 1 mile. 1905.—Weidman, S.
—— & Minnesota. St. Croix River, Dalles. 1 inch = about 3 miles. 1905.—Chamberlin, R. T.
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Mexico. Cadereyta. $\frac{1}{200,000}$. 1904.—Villarello, J. D., 2.
——. Querétaro. $\frac{1}{200,000}$. 1905.—Villarello, J. D., 4.
——. San Luis Potosi. San Pedro District. $\frac{1}{7333}$. 1905.—Laird, G. A.
West Indies. Trinidad (W. part of). 1 inch=about 2½ miles. 1905.—Guppy, R. J. L.
AMERICA (South).
Brazil. Minas Geraes. 1 inch = 50 miles. 1904.—Scott, H. K.
Chile. Atacama. $\frac{1}{2,000,000}$. 1905.—Yunge, G.
Patagonia. ½ inch=about 70 miles. 1905.—Wilckens, O., 3.
Peru. Cajatamba, mineral localities. $\frac{1}{500,000}$. 1904.—Santolalla, F. M.
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Hoffnungs Bay. 1 inch = 1½ miles. 1905.—Nordenskjœld, O.
McMurdo Sound District & Mt. Erebus. 1 inch=39·45 miles. 1905.—Scott, R. F.
ARCTIC REGIONS.
Ellesmere Land. 1 inch=70 miles. 1904.—Nathorst, A. G.
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Altai. Smezhinogorsk. $\frac{1}{150,000}$. 1905.—Spring, R., 2.
India. Assam & Burma. Petroleum. 1 inch=128 miles. 1905.—Holland, T. H., 2.
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——. —— ——. Selemdzha R., Niman R., & Kerbi R. 1 inch=40 versts. 1904.—Yavorovski, P.
——. Léna District. $\frac{1}{84,000}$. Sheet P. 6. 1904.—Gerasemov, A.
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Tasmania. Mount Bischoff. 1 inch =1,125 feet. 1905.—Fawns, S., 2.
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Western Australia (*various*). 1904.—Crockett, L. L.
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——, Trieste.—Moser, L. K., 2.
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Melanophlogite.—Zambonini, F., 3.
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Nantucket I. (Mass.) shore-lines.—Gulliver, F. P., 3.
Naples (Italy).—Bellini, R.; Guenther, R. T.; Lorenzo, G. de, 3.
Naples (N.Y.).—Clarke, J. M., 8.
Naples Fauna, Portage Group, N.Y.—Drevermann, F.
Nardó (Apulia).—Bassani, F., 3.
Narvik (Norway).—Wilkinson, W. F.
Nassau (Germany).—Fresenius, H., 1 & 2; Henrich, F., 1 & 2; Reichenau, W. von; Reinach, A. von; Schœndorf, F.; Steuer, A., 3.
Natal (S.A.).—Anderson, W.; Corstorphine, G. S.; Hatch, F. H., 4; Seward, A. C., 2.
Nathorstites.—Bœhm, J., 1 & 3.
Natica.—Blake, J. F., 2; Deninger, K.; Krumbeck, L.; Locard, A.; Péron, A.; Wilckens, O.
Naticopsis.—Stobbs, J. T.
Natrojarosite.—Hillebrand, W. F., 3.
Nauders (Tyrol).—Suess, E.
Nauru I. (S. Pacific).—Power, F. D.
Nautilus.—Blake, J. F., 2; Dacqué, E., 2; Krumbeck, L.; Simionescŭ, I., 2.
Neath (Glamorgan).—Strahan, A., 3.
Nebo (Queensl.).—Cameron, W. E.
Nebraska (U.S.A.).—Darton, N. H.
Nebular theory, earth &.—Mistockles, N.
Neckar R. (Germany).—Steuer, A., 3.
Necrolestes.—Scott, W. B., 2.
Neisse Valley (Silesia).—Petrascheck, W., 5.
Neocomian, Kaltenleutgeben (Lr. Austria).—Richarz, P. S.
——, Russia.—Pavlov, A. P,
——. *See also* Cretaceous, 'Majolica'-limestone, *&c.*
Neomicrorbis.—Rovereto, G., 2.
Neonematherium.—Ameghino, F., 7.
Neoreomys.—Scott, W. B., 2.
Neosqualodon.—Piaz, G. dal.
Nepheline-rocks, Baden.—Wilckens, O., 2.
—— ——, Bohemia.—Cornu, F., 2.
—— ——, Finland.—Hackman, V.
—— ——, French Guinea.—Lacroix, A., 16.
—— ——, Montreal.—Adams, F. D.
—— ——, Phlegræan Fields.—Manasse, E.
—— ——, Tahiti.—Lacroix, A., 3.
Nephrite.—Berwerth, F., 2; Kalkowsky, E.; Kunz, G. F.
Neponset Valley (Mass.).—Crosby, W. O.
Neptunea.—Newton, R. B., 3.
Neptunite.—Wallenstrœm, A.
Neptunus.—Woodward, H., 3.

Nerike (Sweden). — Sjœgren, H., 4 ; Wiman, C. ; *see also* Œrebro.
Nerinæa.—Blake, J. F., 2; Fittipaldi, E. U. ; Krumbeck, L.
Nerita.—Fittipaldi, E. U. ; Krumbeck, L. ; Locard, A. ; Péron, A. ; Schuetze, E.
Nerrena goldfield (Victoria).—Bradford, W., 2.
Netherlands.—René d'Andrimont, 1, 2, & 4; Uhenbroek, G. D.
Nettie Lead-Mines (B.C.).—Attwood, G.
Nettlingen (Brunswick).— Wollemann, A.
Neuchâtel (Switzerland).—Clerc, M. ; Juillerat, E.
Neuffen (Würtemberg).—Branco, W., 2 ; Stremme, H.
Neurode (Silesia).—Schrœder, H.
Neuropteris.—Scott, D. H., 1 & 2.
—— -seeds.—Kidston, R., 2 ; Zalesski, M. D., 2.
Neustadt (Moravia).—Bukowski, G. von, 2 & 4.
Nevada (U.S.A.).—Emmons, S. F., 2; Maguire, —; Merriam, J. C., 1 & 2; Smith, D. T. ; Spurr, J. E. ; Reid, J. A.
Nevada, Sierra (Cal.).—Gilbert, G. K., 1 & 2 ; Turner, H. W.
New Brunswick (Canada).—Bailey, L. W. ; Bell, R. ; Ganong, W. F.
New Caledonia (Pacific).—Deprat, J., 4 & 7.
New-Cove Quarries, Dumfries.— Anon., 25.
New-Cross railway-cutting (L. B. & S. C. R.).—Robarts, N. F., 2 & 3.
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New Hampshire (U.S.A.).—Hitchcock, O. H. ; Pirsson, L. V., 3.
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New Madrid (Mo.).—Shepard, E. M.
New Mexico (U.S.A.).—Brady, F. W., 1 & 2 ; Darton, N. H., 3 ; Emmons, S. F., 2 ; Jewett, J. J. ; Keyes, C. R., 1-4 ; Ogilvie, I. H., 2 ; Tight, W. G., 3.
New South Wales. — Blair, D. K. ; Etheridge, R., *fil.*, 1, 2, & 4 ; Fawns, S., 2 ; Jaquet, J. B. ; Mingaye, J. C. H., 1 & 2 ; Parton, T. ; Pittman, E. F. ; Shearsby, A. J., 1 & 2 ; *see also* Basalt, Coal, *&c.*
New York (U.S.A.). — Bishop, I. P. ; Butts, C. ; Clarke, J. M., 1-4, 8-11 ; Cushing, H. P. ; Dale, T. N. ; Dickinson, H. T. ; Drevermann, F. ; Dryer, C. R. ; Ellis, (Miss) M. ; Emmons, S. F., 2 ; Fairchild, H. L., 1 & 4 ; Fuller, M. L., 2-4 ; Glenn, L. C., 1 & 2 ; Grabau, A. W., 1 & 2 ; Hartnagel, C. A., 1 & 2 ; Hobbs, W. H., 4 ; Hopkins, T. C. ; Hudson, G. H. ; Ingen, G. V. ; Logan, W. N. ; Loomis, F. B. ; Luther, D. D. ; Matthew, G. F. ; Merrill, F. J. H., 1-3 ; Peet, C. E. ; Raymond, P. E., 2 ; Ries, H., 1 & 2 ; Ruedemann, R. ; Sarle, C. J., 1 & 2 ; Schneider, P. F. ; Shimer, H. W. ; Smyth, C. H., Jun. ; Talbot, M. ; Tarr, R. S., 1 & 2 ; Whitlock, H. P., 1 & 2.
New Zealand.—Bather, F. A. ; Bœhm, J., 5 ; Clarke, E. ; Grosser, P. ; Hayes, J. ; Hill, H., 1 & 2 ; Hogben, G., 1-4 ; Hogg, E. G. ; Hutton, F. W., 2-4 ; Macgowan, J., 1 & 2 ; Marshall, P., 1 & 2 ; Park, J., 1, 3, & 4 ; Paul, M. ; Peck, W. ; Rastall, R. H., 2.
Newbridge goldfield (Victoria). — Hunter, S. B.
Newcastle (Ont.).—Wilson, A. W. G., 2.
Newcastle-under-Lyme Group. — Kidston, R.
Newfoundland.—Howley, J. P.
Newport (Mon.).—Strahan, A., 4.
Newton, E. T. *See* Anon., 14.
Niagara formation, Ontario.—Grant, C. C.
Nice (Alpes-Maritimes).—Bertrand, L., 8.
Nickel, Hungary.—Gesell, A.
——, Ontario.—Dickson, C. W.
——, Oregon, *&c.*—Jamieson, G. S.
Nicola Valley (B.C.).—Bell, R.
Nicoria.—Hooley, R. W.
Nictaux R. (Nova Scotia).—Bell, R.
Niederfellabrunn, &c. *See* Fellabrunn, Lower, *&c.*
Nigeria (Africa).—Dunstan, W. R., 7 ; Fawns, S., 2 ; Hubert, H. ; Newton, R. B. ; Parkinson, J., 2.
Nijni-Tagil (Perm).—Spring, R.
Nijni-Udinsk-Tomsk Section, Siberian Ry.—Friz, W.
Nile R. (Lado Enclave).—Preumont, G. F. J.
Nile Valley (Egypt).—Beadnell, H. J. L., 1 & 2 ; Lucas, A.
Nileus.—Schmidt, F. von.
Nilssonia.—Yokoyama, M.
Niman R. (Siberia).—Yavorovski, P.
Niobrara Group, Kansas.—Wieland, G. R.
Nipadites.—Bonnet, E.
Nipped seams, Saare Coalfield.—Kohler, E.
Nodules, Mekran-coast Tertiary.—Newton, R. B., 3.
——, shale, &c.—Smith, J., 2-4.
Nœtling's shell-torsion law.—Clarke, J. M., 5.
Noirmoutier, I. of (Vendée).—Bonnet, E., 2.
Nol (Gothland).—Munthe, H., 3.
Norberg (Svealand).—Wilkinson, W. F.
Nord (France).—Cornet, J., 5 ; Deblon, A. ; Gosselet, J., 3.

Nördlingen (Bavaria).—Oberdorfer, R.; Reindl, J., 3; Sieber, —.
Norfolk.—Bonney, T. G., 7; Harmer, F. W., 1–3; Howorth, Sir H. H., 3; Woodward, B. B.
Norite, Pembrokeshire.—Elsden, J. V., 2.
——, Transvaal.—Kynaston, H., 1 & 4.
——, Urals.—Duparc, L., 4.
Norite-diorite, Borneo.—Easton, N. W.
——. *See also* Quartz, &c.
Normandy (France).—Bigot, A., 2–5; *see also* Calvados.
Norrbotten (Sweden).—Bæckstrœm, H.; Bygdén, A.; Wilkinson, W. F.
North, F. W. *See* Anon., 15.
North Pole, improbability of land at the.—Spencer, J. W., 4; *see also* Arctic.
Northampton.—Thompson, B.
Northampton Sands.—Buckman, S. S.
Northumberland.—Goodchild, J. G., 5; Lebour, G. A., 2; Lespineux, G., 2; Woolacott, D.
Northupite.—Penfield, S. L., 2.
Norton (Leicester).—Roechling, H. A., 2.
Norway.—Monckton, H. W.; Nansen, F.; Simmersbach, B., 2; Sjœgren, H., 2 & 3; Reusch, H., 1 & 2.
Norwich.—Harmer, F. W.
Nothrotherium.—Sinclair, W. J., 2.
Notidanus.—Bassani, F., 5.
Notoamphicyon.—Ameghino, F., 7.
Nottinghamshire.—Strangways, C. F., 2.
Noumeite. *See* Garnierite.
Nova Scotia (Canada).—Bell, R.; Gilpin, E., Jun., 1–3; Woodman, J. E.
Novi (Croatia).—Waagen, L., 3.
Novigrad (Dalmatia).—Schubert, R. J., 6.
Novograd-Volynsk (Volhynia).—Tarassenkov, V.
Nubian Sandstone, Egypt.—Stromer, E., 4.
Nucula.—Loomis, F. B.; Martelli, A.; Stobbs, J. T.; Wilckens, O.
Nuculana.—Stobbs, J. T.
Nummulites.—Gentile, G.; Lister, J. J., 1 & 2; Prever, P. L., 1 & 2.
Nurra (Sardinia).—Viola, C., 2.
Nü Shima I. (Pacific).—Milne, J.
Nyctophus.—Bassani, F., 3.
Nylstroom (Transvaal).—Kynaston, H., 6.
Nymphaster.—Spencer, W. K.

Oaks View (Queensland).—Ball, L. C., 2.
Oamaru (N.Z.).—Bœhm, J., 5.
Oamaru Series, New Zealand.—Park, J., 1 & 3.
Oaxaca (Mex.).—Chance, H. M.
Oban Hills (S. Nigeria).—Parkinson, J., 2.
Oberdorf (Soleure).—Rollier, L., 4.
Obodus.—Wiman, C., 2.
Ocean I. (S. Pacific).—Power, F. D.
Oceanic deposits.—Anon., 30; Klotz, O.; Van't Hoff, J. H., 2-6.
Oceanic mineral matter.—Salisbury, R. D., 2.
Oceans, bathymetric map of the.—Margerie, E. de.
Ochre-deposits, yellow, Georgia.—Watson, T. L., 3.
Ocotlan (Mexico).—Chance, H. M.
Octahedrite. *See* Anatase.
Octomylodon.—Ameghino, F., 7.
Oculina.—Dennant, J.
Odenwald (Hesse).—Chelius, C., 2.
Odontaspis.—Stromer, E., 3.
Odostomia.—Clark, W. B.
Œcoptychius.—Lissajous, —.
Œcotraustes.—Buckman, S. S.; Simionescŭ, I., 2.
Œland I. (Baltic).—Atterberg, A., 2; Nilsson, A.
Œlsnitz (Saxony). — Kliver, —; Seebohm, —.
Œrebro (Sweden).—Blomberg, A.
Œtz Valley (Tyrol). — Hezner, L.; Ohnesorge, T.
Offenbach (Hesse).—Schauf, W.; Steuer, A., 2.
Ogygia.—Schmidt, F. von.
Ohio (U.S.A.).—Eno, F. H.; Fœrste, A. F., 1 & 2; Fuller, M. L., 2–4; Prosser, C. S., 2 & 3.
Ohm Valley (Hesse).—Muenster, H., 1 & 2.
Oioceros.—Schlosser, M.
Oisans glaciers (Cottean Alps).—Jacob, C., 3.
Oise, Dep. (France).—Meunier, S.
Ojocaliente (Zacatecas). — Lorzano y Castro, M.
Oklahoma (U.S.A.).—Taff, J. A.
Olary (S. Austral.).—Woolnough, W. G.
Old Red Sandstone, Moray Firth.—Traquair, R. H., 4.
Old Testament, metals & minerals referred to in the.—Jervis, W. P.
Oldendorf (Westphalia).—Schlunck, J.
Oldhamina.—Nœtling, F., 3.
Olean (N. Y.).—Butts, C.; Clarke, J. M., 4; Glenn, L. C.
Olenellus-zone, Scandinavia.—Wiman, C., 2.
Olenus.—Persson, E.
Olifant's River (Transvaal).—Kynaston, H., 6; Mellor, E. T., 3; Rogers, A. W., 2.
Oliva.—Clark, W. B.
Olivine, Montefiascone.—Fantappiè, L.
Olophrum.—Mjœberg, E., 2.
Ommatocarcinus.—Hall, T. S., 2.
Oneida Co. (N. Y.).—Fairchild, H. L.; Smyth, C. H., Jun.
Onondaga Co. (N. Y.). — Hopkins, T. C.
Ontario (Canada).—Bell, R.; Daly, R. A., 2; Dickson, C. W.; Grant, C. C.; Wilson, A. W., 1 & 2.
Onychocardium.—Whitfield, R. P.

Oolite, Bedfordshire.—Woodward, H. B., 6.
——, Durdham Downs.—Short, A. R.
——, Oxfordshire.—Walford, E. A.
——, Somerset.—Tutcher, J. W.
Oolitic iron-ore, Lorraine.—Bailly, L.
—— limestone, Congo Free State.—Preumont, G. F. J.
Ooze, Atlantic.—Anon., 30; Bruce, W. S.
——, Pacific.—Fuchs, T., 4 & 7; Klotz, O.
Ophiopsis.—Gorjanović-Kramberger, K.
Ophir (Africa).—Braga, E.
Ophitic rocks, Apennine Cretaceous.—Sacco, F., 5.
—— ——, coarseness of.—Lane, A. C.
Ophiuridæ, Devonian.—Bather, F. A., 2.
Oppelia.—Collet, L. W.; Simionescŭ, I., 2.
Oppeln (Silesia).—Andreæ, A.; Flegel, K., 2.
Oran (Algeria).—Gentil, L., 2; Levat, D.; Thévenin, A.
Orange-River Colony (S. A.).—Hatch, F. H., 4; Jorissen, E.; Philippi, E., 4; Watermeyer, F. S.
Orbicella.—Felix, J., 2.
Orbicular granite. — Bæckstrœm, H.; Rimann, E.
—— tuff, Arizona.—Blake, W. P., 4.
Orbiculoidea.—Stobbs, J. T.
Orbigny's, A. d', 'Moll. Viv. et Foss.', &c., dates of publication of.—Sherborn, C. D., 1 & 2.
Orbitoides.—Checchia-Rispoli, G., 2; Grossouvre, A. de; Schlumberger, C.
—— -limestone, Isère.—Pâquier, V.
Orbitolina.—Douvillé, H., 5.
Orbitolinidæ, Prever, P. L., 3.
Ordovician, Britanny.—Bigot, A.
——, Canada & New York.—Raymond, P. E., 2; Ruedemann, R.
——, Gothland.—Persson, E.
——, Indiana & Ohio.—Fœrste, A. F., 1 & 2.
——, Merioneth.—Fearnsides, W. G.
——, Pembrokeshire.—Reed, F. R. C.
——, Victoria.—Chapman, F.
Ore-deposits, Comstock Lode.—Reid, J. A.
—— ——, contact-metamorphism &.—Ermisch, K., 2; Turner, H. W.; Van Hise, C. R. *See also* Contact, *&c.*
—— ——, Great Britain & Ireland.—Home Office, 1–4.
—— ——, Hungary.—Posewitz, T.
—— ——, origin of. — Bœhmer, M.; Gillette, H. P.; Lindgren, W., 2; Prichard, W. A.; Van Hise, C. R.
—— ——, Peru.—Denegri, M. A.
—— ——, possible natural transport of.—Launay, L. de, 2.
—— ——, Silesia. — Guerich, G., 2; Michel, R.; Sachs, A., 2.
—— ——, surface-indications of. — Lakes, A., 2.
—— ——, valuation of.—Park, J., 4.
Ore, Loch (Fife).—Anon., 29.
Ore Valley (Western Bothnia).—Hœgbom, A. G., 2.
Oregon (U.S.A.). — Branner, J. C.; Emmons, S. F., 2; Jamieson, G. S.; Louderback, G. D.; Russell, I. C., 3.
O'Reilly, J. P. *Obit*.—*See* Anon, 8; Cole, G. A. J., 2; Seymour, H. J.
Orel Gov. (Russia).—Tchirvinski, P. N.
Oriolo (Calabria).—Crema, C.
Ormara headland (Mekran coast). — Woodward, H., 3.
Ornato, Mte. (Apuan Alps).—Vaglini, C.
Orography, Asia (E.).—Hobbs, W. H.
——, experimental.—Avebury, Lord.
——. *See also* Mountain-structure, *&c.*
Orometopus.—Wiman, C.
Orophocrinus.—Rowley, R. R.
Oroville (Cal.).—Knox, N. B.
Orthidium.—Raymond, P. E., 2.
Orthis.—Chapman, F.; Dun, W. S.; Raymond, P. E., 2; Reed, F. R. C.
Orthoarthrus.—Ameghino, F., 7.
Orthoceras.—Hind, W., 2; Stobbs, J. T.
Orthochætus.—Morgan, J. de, 2.
Orthoclase.—Gonnard, F.
Orthodesma.—Reed, F. R. C.
Orthodolops.—Ameghino, F., 7.
Orthophlebia.—Bode, A.
Orthophragmina.—Prever, P. L., 1 & 2; Schlumberger, C.
Ortiz Mts. (New Mexico).—Ogilvie, I. H., 2.
Ortler (Tyrol).—Hammer, W., 1 & 3.
Oruro (Chile).—Avalos, C. G.
Orvieto (Umbria).—Vinassa de Regny, P.
Orycteropus.—Ameghino, F., 6.
Osamka (Perm).—Duparc, L.
Oskarshamn (Gothland).—Svedmark, E., 2.
Osmosis, ore-formation &.—Gillette, H. P.
Osmunda.—Stanton, T. W.
Ossegg (Bohemia). — Hibsch, J. E.; Hœfer, H., 2.
Ossiferous cavern, Hoe-Grange Quarry.—Arnold-Bemrose, H. H.
Ossola (Piedmont).—Lincio, G.; Stella, A., 2.
Ostracoda, Devonian.—Jones, T. R., 2; Thomas, I.
——, Ordovician.—Raymond, P. E., 2.
——, Quaternary.—Sieber, —.
——, Silurian.—Wiman, C., 2.
——, Tertiary.—Clark, W. B.; Lienenklaus, E.; Sieber, —.
——, Triassic.—Jones, T. R.; Newton, R. B., 2.
Ostrea.—Dacqué, E.; Krumbeck, L.; Loriol, P. de; Nordmann, V., 2; Richardson, L., 3; Thomas, P.; Wilckens, O.
Otago (N. Z.).—Park, J., 3; Peck, W.; Marshall, P., 1 & 2.
Otidophyton.—Smith, G. O.
Otoceras-beds, Himalayas.—Diener, C.

Otodus.—Stromer, E., 3.
Otolites, fish- ; & *Otolithus*.—Schubert, R. J., 8.
Ottawa (Canada).—Buchan, J. S. ; Cirkel, F., 2 ; Raymond, P. E., 2.
Otto (Lisbon).—Delgado, J. F. N., 2.
Ottweil Beds, Rhenish Prussia. — Meunier, F., 2.
Otuzco (Peru).—Santolalla, F. M., 3.
Oudenodon.—Broom, R.
Oued-Akarit (Tunis).—Bédé, P., 2.
Ouennougha (Algeria).—Ficheur, E., 4.
Ouriçanga (Brazil).—Krasser, F.
Ovibos moschatus, S. England Quaternary.—Andrews, C. W., 3.
Ovoca (Wicklow).—Davies, E. H.
Ovula.—Gregorio, A. de.
Oxford, geology &.—Sollas, W. J.
Oxfordian, Bernese Jura.—Æberhardt, B.
Oxfordshire. — Monckton, H. W., 3 ; Salter, A. E. ; Walford, E. A., 1 & 2 ; Woodward, H. B., 9.
Oxygen, abstracted by iron from the atmosphere.—Smyth, C. H., Jun., 3.
——, mineralogy &.—Cooper, J. C.
Oxynoticeras.—Benecke, E. W .
Oxyrhina.—Stromer, E., 3.

Pachycardium.—Read, A.
—— -beds, Tyrol.—Blaschke, F.
Pachydictya.—Hennig, A.
Pachyerisma.—Krumbeck, L.
Pachygyra.—Koby, F.
Pachylytoceras.—Buckman, S. S., 2.
Pachynasua.—Ameghino, F., 7.
Pachyperna.—Dainelli, G.
Pachypteryx.—Wiman, C., 4.
Pachytragus.—Schlosser, M.
Paciano (Umbria).—Bortolotti, C.
Pacific Ocean.—Agassiz, A. ; Klotz, O. ; Lévy, Aug. M., 2 ; *see also* Gambier Is., *&c.*
Packard, A. S. *Obit.*—*See* Anon, 9 ; Woodward, A. S., 4.
Padirac Cavern (Tarn).—Martel, E. A., 10.
Pålamalm (Upsala).—Geer, S. de.
Palæacmæa.—Raymond, P. E., 2.
Palæanodonta.—Schmidt, A.
Palæomastodon.—Andrews, C. W., 2.
Palæochæta.—Clarke, J. M., 6.
Palæodictyon. — Capeder, G., 1 & 2 ; Fuchs, T., 6.
Palæolithic site in Ipswich.—Layard, N. F.
Palæoneilo.—Bœhm, J.
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Palæophocæna.—Abel, O., 4.
Palæophonus.—Lankester, E. R.
Palæorbis.—Reis, O. M.
Palæorhinus.—Williston, S. W.
Palæorhynchus.—Pasquale, M., 2.
Palæoryx.—Schlosser, M.
Palæotherium.—Stehlin, H. G., 1 & 3.
Palastræa.—Thomson, J.
Palermo (Sicily).—Meunier, S., 2.
Paleryx.—Stefano, G. de.
Palestine.—Krumbeck, L.
Palinosphæria.—Reinsch, P. F.
Palladium.—Headden, W. P., 2 ; Hussak, E.
Pallasca (Chile).—Lucio, F. de.
Pallasite.—Brezina, A.
Palmella (Estremadura).—Choffat, P., 4.
Palmicellaria.—Clark, W. B.
Paludinella.—Howorth, Sir H. H., 3.
Pampas Formation, Buenos Aires. — Reche, O.
Panopæa.—Locard, A. ; Newton, R. B. ; Wilckens, O.
Papakura Series, New Zealand.—Clarke, E.
Papandajan volcano, W. Java.—Volz, W.
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Paradoxides.—Wiman, C., 3.
Paraffin, Whitehaven.—Dodds, R., 2.
Paraguay (S. Am.).—Milch, L.
Parahyænodon, Paramyocastor, & *Paraarctotherium*.—Ameghino, F., 7.
Parapsonema.—Fuchs, T., 2.
Parasteiromys & *Paratemnus*.—Ameghino, F., 7.
Parchim (Mecklenburg). — Gagel, E. ; Geinitz, E., 2.
Parelops.—Fritsch, A., 2.
Pareora Series, New Zealand.—Park, J., 3.
Paris (France).—Capitan, L. ; Geslain, M. ; Meunier, S., 3.
——, minerals in water-supply of. — Cayeux, L., 5.
Paris Basin.—Cayeux, L., 4 & 5 ; Dollfus, G. F., 3 & 4 ; Meunier, S., 5.
Parisite.—Tacconi, E.
Parka.—Reid, J.
Parma (Emilia).—Stefani, C. de, 2.
Paronæa.—Prever, P. L.
Paryphostoma.—Morgan, J. de, 2.
Pas-de-Calais (France).—Barrois, C., 2 ; Gosselet, J. ; *see also* Picardy, *&c.*
Patagonia (S. Am.).—Crosthwait, H. L. ; Gaudry, A., 1 & 2 ; Martin, H. T. ; Scott, W. B., 1-3 ; Wilckens, O., 1 & 3.
Pataz (Chile).—Lucio, F. de.
Paularo (Venetia).—Vinassa de Regny, P., 4.
Paumotu Is. (Pacific).—Lévy, Aug. M., 2.
Pavia (Lombardy).—Prever, P. L., 2.
Peat, Ardennes.—Limburg-Stirum, A. von.
——, Cumberland.—Lewis, F. J.
——, Kehdinger Moor.—Beyschlag, F.
——, Kerguelen Land.—Philippi, E., 4.
——, Lüneburg.—Mueller, G.

Peat, Monroe Co. (N.Y.).—Sarle, C. J., 2.
——, origin of.—Hoffmann, J. F.
——, Scotland.—Smith, W. G.
——, Stettin.—Potonié, H.
——, Sweden.—Sundbærg, G.
——, Sylt (I. of) &c., submarine. — Hartz, N.; Stolley, E., 2.
——, utilization of.—Blake, G. S., 2.
——. *See also* Bogs.
Peat-bogs, Holstein.—Wolff, W., 2.
——, Ireland.—Adams, J.
Pebble-covered plains, Arizona.—Blake, W. P.
Pebbles, elongated, running water &.—Noël, E.
——, facetted.—Philippi, E., 1–3; *see also* Windworn stones.
——, rocks &.—Lebour, G. A.
Pecopteris.—Leuthardt, F.; Zeiller, R.
—— -seeds.—Grand'Eury, F. C.
Pecten.—Bœhm, J.; Dacqué, E., 2; Hutton, F. W., 3; Krumbeck, L.; Locard, A.; Loriol, P. de; Martelli, A.; Park, J.; Petrascheck, W., 4; Wilckens, O.
Pectinidæ, Tertiary.—Bigot, A., 6.
Pegmatite, Tyrol.—Hammer, W., 2.
Peissenberg (Bavaria).—Rothpletz, A.
Pelamycybium.—Toula, F.
Pelé, Mt. (Martinique).—Forel, F. A.; Lacroix, A., 1, 3, 5, 6, & 7; Pélagaud, E.; Russell, I. C., 5; Verri, A., 2.
Pelion massif (Greece).—Deprat, J., 2.
Peloponnesus (Greece).—Deprat, J.
Pelycosauria, Triassic.—Huene, F. von, 2.
Pelycosaurus.—Broili, F.
Pembina District (N. Dakota).—Berkey, C. P.
Pembrokeshire.—Elsden, J. V., 2; Jehu, T. J.; Reed, F. R. C.; Thomas, H. H., 2.
Penarth (Glamorgan).—Richardson, L., 3.
Penberry Hill (Pembroke).—Elsden, J. V., 2.
Pendulum-results, Antarctic regions.—Milne, J., 2.
Peneplains.—Passarge, S., 2.
Penmaenmawr (Caernarvon). — Elsden, J. V., 4; Schaub, L.
Pennine Alps. *See* Alps, *&c.*
Pennsylvania (U.S.A.).—Clapp, F. G.; Emmons, S. F., 2; Halberstadt, B.; Stevenson, J. J.; Williams, H. S.
'Pennystone' ironstone, Dudley. — Woodward, H., 5.
Pentaceros.—Spencer, W. K.
Pentacrinidea, Chalk.—Jækel, O., 2.
Pentacrinus.—Hucke, K.
Pentagonaster.—Spencer, W. K.; Weller, S., 3.
Pentasphæra.—Squinabol, S., 3.
Penzance (Cornwall).—Latham, F.
Perak (Malay States).—Dykes, F. J. B.; Evans, J. W., 3; Jones, T. R.; Newton, R. B., 2; Scrivenor, J. B. 1, 2, 4, & 5.
Peramiho (German East Africa).—Berwerth, F.
Percé Rock (Gaspé).—Clarke, J. M., 7.
Pereiraia.—Sacco, F., 6.
Perforated astragalus, antiquity of genus &.—Ameghino, F., 1–6.
—— crystalline rocks, natural.—Baron, R.; Bonney, T. G., 3; Ferrar, H. T.
Peridotite. *See* Olivine.
—— dykes.—Barnett, V. H.; Lacroix, A., 12; Matson, G. C.
Perimys.—Scott, W. B., 2.
Perisphinctes.—Bigot, A., 5; Blake, J. F., 2; Dacqué, E., 2; Simionescŭ, I., 2; Vetters, H.
Perissolax.—Weaver, C. E.
Perm Gov. (Russia).—Duparc, L., 1–4; Spring, R.
Permian, Alpes Maritimes.—Bertrand, L., 4.
——, Bohemia.—Broili, F., 2; Katzer, F.
——, Chorlton-on-Medlock. — Dawkins, W. B., 3.
——, Corsica.—Deprat, J., 6.
——, Germany (N.), salt-district.—Ochsenius, K.
——, Hesse.—Chelius, C.
——, Himalayas.—Diener, C.
——, Kansas.—Beede, J. W.; Prosser, C. S.
——, Monmouthshire.—Richardson, L., 9.
——, Montenegro.—Martelli, A.
——, Prince Edward I.—Case, E. C., 2.
—— Sandstone, Dumfries.—Anon., 25.
——, Vogelgebirge.—Klemm, G., 6.
——, Yunnan.—Mansuy, H.
Permo-Carboniferous, Cape Colony.—Rogers, A. W., 4.
——, Chile.—Schneider, J.
——, Kashmir.—Seward, A. C., 3.
Perna.—Woods, H.
Peromyscus.—Sinclair, W. J.
Perrier (Puy-de-Dôme).—Stehlin, H. G., 2.
Perry (Me.) & Perry Formation. — Smith, G. O.
Persberg (Svealand).—Wilkinson, W. F.
Persia.—Douvillé, H., 4 & 7; Morgan, J. de, 1 & 2; Zeiller, R., 2.
Perthite.—Suess, F. E., 4.
Perthshire.—Barrow, G.; Horne, J.
Peru (S. Am.).—Alvarado, L. U.; Day, D. T.; Denegri, M. A.; Dueñas, E. I.; Enock, R.; Habich, E. A. V. de; Loroza, E.; Masias, M. G., 1 & 2; Santolalla, F. M., 1–3.
Petrified forest between Cairo & Suez.—Barron, T.
Petrographical microscope. — Weinschenk, E.
Petrography. *See* Petrology.
Petroleum, Alaska. — Brooks, A. H., 1 & 2; Martin, G. C.
——, Argentina.—Rowbotham, J. McK.
——, Baku.—Goloobyatnikov, D. V., 2; Trevithick, J. H.

Petroleum, Bavaria.—Fink, W., 1 & 2.
——, British Columbia.—Ashworth, J., 2.
——, California.—Prutzman, P. W.
——, Canada.—Bell, R.
——, Cape Colony & Transvaal. — Stephan, M. J.
——, Colorado.—Lakes, A., 3.
——, Hungary & Moravia.—Rzehák, A., 3.
——, India.—Evans, J. W.; Holland, T. H., 2; Rudra, S. C.
——, Indiana.—Blatchley, W. S., 2.
——, Kansas.—Adams, G. I., 2; Barrow, E., 2.
——, Mexico.—Barriga, M. D.
——, New York.—Bishop, I. P.
——, New Zealand.—Macgowan, J., 1 & 2.
——, occurrence of.—Monke, A.
——, origin of.—Coste, E.; Potonié, H., 2.
——, Parma.—Stefani, C. de, 2.
——, Peru.—Day, D. T.
——, Red Sea.—Barrois, C.; Stewart, C. E.
——, Trinidad.—Dunstan, W. R., 6.
——, United States production.—Day, D. T.; Emmons, S. F., 2.
——, volcanic dykes impregnated with. —Lakes, A., 3.
——, West Indies.—Evans, J. W., 2.
Petrology, American (N.), 1903.—Weeks, F. B.
——, German educational. — Rinne, F. 2.
——, modern.—Twelvetrees, W. H., 4.
——, photography &.— Borne, G. von dem.
——, text-books of.—Lapparent, A. de, 5; Launay, L. de, 4; Rosenbusch, H.; Wuelfing, E. A.
Pettee, W. H. *Obit.*—*See* Russell, I. C.
Pfunderer Berg (Tyrol).—Rose, —.
Phacodiscus.—Clark, W. B.
Phacopidæ, classification of the.—Reed, F. R. C.
Phacops.—Bassani, F., 8; Thomas, I.; Woodward, H.
Phacostylus.—Squinabol, S., 3.
Phænopora.—Hennig, A.
Philadelphia (Pa.).—Bascom, (Miss) F.; Jonas, (Miss) I.
—— Academy Museum, Cretaceous invertebrates in the.—Johnson, C. W.
Philippi, R. A. *Obit.*—*See* Bœse, E., 2.
Philippine Is.—Becker, G. F., 3.
Phillipsastræa.—Thomson, J., 3.
Phillipsburg (N.J.).—Peck, F. B.
Phlegræan Fields (Naples).—Lorenzo, G. de, 4 & 9; Manasse, E.; Piutti, A.
Phocæna.—Abel, O., 4.
Pholadomya.—Bœhm, J.; Wilckens, O.
Pholas.—Locard, A.
Pholidophorus. — Gorjanović - Kramberger, K.
Phonolite, Paraguay.—Milch, L.
Phormocampe.—Squinabol, S., 3.
Phosphate-deposits of Ocean & Pleasant Is.—Power, F. D.
Phosphate-of-alumina beds, Mansfield (Vict.).—Howitt, A. M.
Phosphates, Dauphiné.—Jacob, C., 1 & 2.
——, dehydration of.—Gaubert, P.
——, Doubs.—Merle, A.
——, Tunis.—Pervinquière, L.; Thomas, P., 2.
——, United States.—Day, D. T.
Phosphatic beds, Cambridge, &c.—Lamplugh, G. W., 3.
—— Chalk.—Cornet, J., 3; White, H. J. O.
—— concretions.—Collet, L. W., 2.
Photographs, geological. *See* Geological.
Photography, geology &.—English, D.
Lewis, G. G.
——, petrology &.—Borne, G. von dem.
Phragmites.—Kerner, F. von, 2.
Phryganidium.—Bode, A.
Phyllites.—Stanton, T. W.
Phylloceras.—Krumbeck, L.; Prinz, G., 2; Simionescŭ, I., 2.
—— *Loryi*-beds, Isère.—Lory, P.
Phyllocladus.—Deane, H.
Phylogenesis, geology &.—White, C. A.
Physiography, new terms in.—Salisbury, R. D.
——, Suess's theories &.—Davis, W. M., 3.
Picardy (France).—Gosselet, J.
Picrite, Hesse.—Brauns, R., 5.
Piedmont (Italy). — Bassani, F., 2; Franchi, S.; Issel, A., 5; Lincio, G., 1–3; Lugeon, M., 3–4; Novarese, V.; Piotti, G.; Sacco, F., 3; Stella, A., 2; Roccati, A.; Tacconi, E., 1 & 2; Zamboni, F., 3.
Pietersburg (Transvaal).—Kynaston, H., 6.
Pietpotgietersrust (Transvaal). — Kynaston, H., 6.
Pieve di Cadore (Venetia).—Mariani, E., 2.
Pilbara (W. Austral.).—Maitland, A. G., 3.
Pilchenia.—Ameghino, F., 7.
Pinch-Swamp Creek (Vict.).—Copland, M.
Pinguente (Istria).—Manek, F.
Pinites.—Fliche, P., 3.
Pinna. — Bœhm, J.; Loriol, P. de; Picard, E.; Wilckens, O.; Woods, H.
Pinus.—Fliche, P., 3; Morgan, L.
Pique Valley (Hautes Pyrénées).—Dop, P.
Pironæa.—Dainelli, G., 2.
Pisanite.—Schaller, W. T., 3.
Pish Kuh (Luristan).—Morgan, J. de.
Pitcairn I. (Pacific).—Lévy, Aug. M., 2.
Pitch Hill (Surrey).—Herries, R. S.
Pitch, mineral, Ijebu District (Lagos).—Dunstan, W. R., 7.

Pitchblende, helium in.—Moss, R. J.; *see also* Uraninite.
Pitchstone, Sgurr of Eigg.—Harker, A.
Pitlochry (Perth).—Barrow, G.
Placenticeras.—Etheridge, R., *fil.*, 3.
Placer-gold, Montana.—Douglass, E.
——-mining, Alaska.—Purington, C. W.
Placocœnia, Placogyra & Placophyllia.—Koby, F.
Placostegus.—Rovereto, G., 2.
Placotrochus.—Dennant, J.
Placuna.—Locard, A.
Placunopsis.—Galdieri, A., 2.
Plæsiomys.—Raymond, P. E., 2.
Plagioclase.—Cesàro, G., 2; *see also* Felspars.
Plagiolophus.—Stehlin, H. G., 3.
Plains, Central (U.S.A.).—Darton, N. H.
——, enclosed & other.—Passarge, S., 2; Tight, W. G., 3.
Planops.—Scott, W. B.
Plant-fertilization.—White, C. H.
Plants, Carboniferous.—Arber, E. A. N., 1–4, 6, & 7; Gasparis, A. de, 2; Grand' Eury, F. C., 1–3; Kidston, R., 2 & 3; Kœhne, W.; Oliver, F. W.; Smith, B.; Scott, D. H., 1, 2, & 4; Weiss, F. E.; White, D.; Zalesski, M. D., 2; Zeiller, R., 3 & 4.
——, Cretaceous.—Fliche, P.; Stanton, T. W.; Zeiller, R.
——, Culm.—Arber, E. A. N., 2.
——, Devonian.—Nathorst, A. G.; Smith, G. O.
——, fossil. *See also* Wood, *&c.*
——, geology &.—Sernander, R.
——, interglacial, Elmshorn.—Gagel, C., 2 & 4.
——, Jurassic.—Benecke, E. W.; Fliche, P., 3; Lignier, O.; Seward, A. C., 1 & 2; Tornquist, A.; Yokoyama, M.; Zalesski, M. D.
——, leaf-variations in.—Penhallow, D. P.
——, Old Red Sandstone.—Reid, J.; *see also* Devonian.
——, peat.—Mueller, G.
——, Permo-Carboniferous.—Etheridge, R., *fil.*, 2; Rogers, A. W., 4; Seward, A. C., 2 & 3.
——, Permo-Jurassic.—Arber, E. A. N., 7.
——, Quaternary.—Gagel, C., 2 & 4; Hartz, N., 3; Kerner, F. von, 2; Mjœberg, E.
——, reproduction of types (Palæozoic & Mesozoic).—Potonié, H., 4.
——, Rhætic.—Zeiller, R., 2.
——, soils &.—Fliche, P., 2.
——, Tertiary.—Bonnet, E., 1 & 2; Clark, W. B.; Deane, H; Engelhardt, H.; Hartz, N., 2; Krasser, F.; Lauby, A., 2; Lemoine, P., 4; Maury, C. J.; Mogan, L.; Palibin, I. V Penhallow, D. P., 2.
——, Triassic.—Gasparis, A. de, 3; Leuthardt, F.; Lomas, J.
——. *See also* Algæ, *&c.*
Plateau-deposits.—Rutot, A., 4.
Plateau, Düsseldorf limestone.—Kœnen, K.
Platinum, Brazil.—Hussak, E.
——, Perm.—Spring, R.
——, Queensland.—Ball, L. C.
——, Sumatra.—Hundeshagen, L.
——, United States.—Day, D. T.
Plattkofl massif (Tyrol).—Skeats, E. W.
Platycus.—Thomas, I.
Platymelopus.—Raymond, P. E.
Pleasant I. *or* Nauru (S. Pacific).—Power, F. D.
Plecia.—Meunier, F.
Plectambonites.—Reed, F. R. C.
Pleistocene. *See* Quaternary, *&c.*
Plesiosaurus.—Benecke, E. W.; Blake, J. F., 2; Koken, E.
Plesiospatangus.—Fourtau, R.
Plethospira.—Donald, (Miss) J., 2.
Pleuronautilus.—Crick, G. C., 4; Stobbs, J. T.
Pleurophorus.—Bœhm, J.
Pleurosmilia.—Angelis d'Ossat, G. de; Koby, F.
Pleurostylodon.—Ameghino, F., 7.
Pleurotoma.—Clark, W. B.; Hutton, F. W., 3.
Pleurotomaria.—Blake, J. F., 2; Clerc, M.
Plexotemnus.—Ameghino, F., 7.
Plicatula.—Locard, A.; Loriol, P. de; Richardson, L., 3.
Pliocene, Campine.—Dubois, E., 2 & 4; *see also* Tertiary, Icenian, *&c.*
Pliolampas.—Airaghi, C.
Plioplatecarpus.—Dollo, L.
Plug, Fernando de Noronha volcanic.—Wilson-Barker, D.
——, Mt. Pelé volcanic.—Russell, I. C.
Plumbojarosite.—Hillebrand, W. F., 3.
Pneumatic foramina, Dinosaurian.—Seeley, H. G.
Po Valley (Italy).—Sacco, F., 3; Stefani, C. de, 3; Taramelli, T., 5.
Pöchlarn (Lr. Austria).—Sigmund, A., 2.
Podolia (Russia).—Laskarev, V.
Poitiers (France).—Fournier, A.
Polacanthus.—Nopcsa, F., 3.
Poland, Russian.—Sobolev, D.
Polarization-apparatus.—Nakamura, S.
——, crystals &.—Osthoff, A.
——, microscope.—Weinschenk, E.
——, minerals.—Kaemmerer, P.; *see also* Minerals.
——, slags &.—Hlawatsch, C.
Polcenigo (Venetia).—Taramelli, T., 2.
Polymorphina.—Jensen, H. I.
Polyphylloseris.—Koby, F.
Polypteride.—Stromer, E., 3.
Polyptychus.—Morgan, J. de, 2.
Polystomella.—Jensen, H. I.
Polytropina.—Donald, (Miss) J., 2.
Polzin (Pomerania).—Deecke, W.
Pomatocerus.—Rovereto, G., 2.
Pomerania (Prussia).—Beyschlag, F.; Deecke, W., 1, 2, & 5; Grœnwall, K. A., 3; Hucke, K.; Kaunhowen, F., 2; Potonié, H.; Schneider, O.; Schellwein, E.

Pompeii (Campania).—Colomba, L.
Pont-à-Mousson (Meurthe-et-Moselle). —Cavallier, C.; Laur, F., 1 & 2; Nicklès, R., 3; Zeiller, R., 3.
Ponte Nuovo (Tuscany). — Pasquale, M., 2.
Pontocypris.—Lienenklaus, E.
Pontoleon.—True, F. W.
Ponza Is. (Italy).—Mercalli. G.
Poore, G. *Obit.*—*See* Anon., 10.
Populus.—Stanton, T. W.
Porcupine, fossil.—Allen, J. A.
—— placer-district (Alaska).—Wright, C. W.
Porella.—Neviani, A., 2.
Porodiscus.—Squinabol, S., 3.
Porosphæra.—Stache, G.
Porphyrite, Borneo.—Volz, W., 2.
——, Merioneth.—Fearnsides, W. G.
——, Pembrokeshire.—Elsden, J. V., 2.
——, Tyrol. — Hammer, W., 2; Proboscht, H.
Porphyritic structure, magmas &.—Milch, L., 2; *see also* Magmas.
Porphyry, Aar massif.—Fischer, O.
——, Antarctic.—Nordenskjœld, O.
——, Bavaria.—Glungler, G.
——, Borneo —Easton, N. W.
——, Bosnia.—Katzer, F., 3.
——, Botzen.—Trener, G. B.
——, Egypt.—Ugolini, R.
——, Finland.—Hackman, V.
——, Hesse.—Chelius, C., 2.
——, Korea.—Carles, W. R.
——, Merseburg.—Haase, E.
——, Moldau Valley.—Klvana, J.
——, Perthshire.—Barrow, G.
——, Quebec.—Adams, F. D.
——, Rhenish Prussia.—Chelius, C., 4.
——, Sardinia.—Riva, C.
——, Victoria (Austral.).—Shearsby, A. J., 2.
——, Volhynia.—Tarassenkov, V.
——, West Indies.—Hœgbom, A. G., 4.
——, Westphalia.—Grosser, P.
Porpita.—Fuchs, T., 2.
Portage Formation, New York.—Luther, D. D.
Portheus.—Osborn, H. F., 6.
Portland cement, Alabama.—Lea, S. H.
—— ——, Ohio.—Bleininger, A. V.
—— ——, United States production.—Day, D. T.; Eckel, E. C.
—— ——. *See also* Cement.
Portlandian, Boulonnais.—Fliche, P., 3.
Portugal.—Choffat, P., 1–6; Delgado, J. F. N., 1 & 2; Hull, E.; Koby, F.
Posen (Prussia).—Jentzsch, A.
Posidonia.—Frech, F.; Kœnen, A. von, 2.
Posidoniella.—Stobbs, J. T.
Posidonomya.—Bettoni, A.
Postglacial deposits, Cross Fell.—Lewis, F. J.
—— ——, Iceland.—Thoroddsen, T., 2.
—— ——, Schaffhausen.—Meister, J.
Potamotherium.—Matthew, W. D., 4.
Potassic deposits, Germany.—Kœnen, A. von, 3; Ochsenius, K.; Schulz-Brisen, B.; Van't Hoff, J. H., 2–6.
Potchefstroom System (Transvaal). — Hatch, F. H., 4.
Potenza R. (Italy).—Moderni, R.
Pot-hole, near Thayngen (Schaffhausen). —Meister, J.
Potier, A. *Obit.*—*See* Troost, —.
Pottery Coalfield (Staffs).—Gibson, W., 2; Ward, J.
Potton (Beds).—Lamplugh, G. W., 3.
Ponza Is. (Italy).—Galdieri, A.; Mercalli, G.
Powell, J. W. *Obit.*—*See* Dall, W. H., 2.
Prague (Bohemia).—Klvana, J.; Pelikan, A.
Prairie-mounds, California, &c.—Branner, J. C.; Hilgard, E. W.; Piper, A. C.; Purdue, A. H., 2; Veatch, A. C.; *see also* Mounds, natural.
Praunheim (Hesse).—Reinach, A. von., 2.
Pre-Cambrian, New Jersey.—Spencer, A. C.
——, Portugal.—Delgado, J. F. N.
——, Sweden.—Sundbærg, G.
Precious stones, Ceylon. — Coomáraswámy, A. K., 3 & 4.
—— ——, radium &.—Baskerville, C., 3.
—— ——, supply of.—Kunz, G. F.
—— ——, United States, &c.—Day, D. T.
Predazzite.—Peruzzi, L.
Pre-Glacial flora, Lüneburg. — Mueller, G.
—— valleys, Durham, &c.—Woolacott, D.
Prepotheriops.—Ameghino, F., 7.
Preptoceras.—Furlong, E. L.
Pretoria (Transvaal).—Hall, A. L., 1 & 4; Kynaston, H., 1–7; Mellor, E. T., 8; Tweddill, S. M.
Pretoria Series, Transvaal.—Hall, A. L., 2; Mellor, E. T., 8.
Prieska (Cape Colony).—Schwarz, E. H. L., 5.
Primitia.—Jones, T. R., 2; Raymond, P. E., 2.
Prince Albert goldfield (Cape Colony).—Schwarz, E. H. L., 4.
Prince Edward I. (Canada).—Case, E. C., 2, Poole, H. S.
Pristerognathus.—Broom, R., 2.
Pristiophorus & Pristis.—Stromer, E., 3.
Proantigonia.—Simionescŭ, I.
Proarctotherium.—Ameghino, F., 7.
Proboscina.—Canu, F.
Procerithium.—Morgan, J. de, 2.
Procolophon.—Broom, R., 7; Seeley, H. G., 2.
Prodamaliscus.—Schlosser, M.
Productus.—Stobbs, J. T.; Vaughan, A.
Proectocion & Progarzonia. — Ameghino, F., 7.
Prolagostomus.—Scott, W. B., 2.

Prolagus.—Major, C. I. F.
Promathildia.—Bœhm, J.
Promina Mt. (Dalmatia).—Schubert, R. J., 6.
Promyrmephagus.—Ameghino, F., 7.
Pronoella.—Benecke, E. W.
Proprepotherium.—Ameghino, F., 7.
Propristis.—Stromer, E., 3.
Propseudopus.—Stefano, G. de, 2.
Propylite, Tolfa.—Millosevich, F., 2.
Prospector's pan, use of in geological research.—Parkinson, J.
Prosthennops.—Matthew, W. D., 4.
Protamandua.—Ameghino, F., 7.
Proteophyllum.—Zeiller, R.
Prothylacynus.—Sinclair, W. J., 3.
Protonympha.—Clarke, J. M., 6.
Protoseris.—Koby, F.
Protostega.—Sternberg, C. H.
Protrachyceras.—Martelli, A.
Protragelaphus.—Schlosser, M.
Protula.—Rovereto, G., 2.
Provence (France).—Guébhard, A., 5 & 7.
Prussia, potash-salt districts.—Ochsenius, K.
——, Quaternary.—Madsen, V., 2.
——. *See also* Brandenburg, *&c.*
—— (E.).—Beyschlag, F.; Brueckmann, R.; Jentzsch, A., 1 & 3; Krause, P. G.; Meunier, F.
—— (W.).—Jentzsch, A.
Przemyśl (Galicia).—Wójcik, K.
Psammechinus.—Loriol, P. de, 2.
Psammobia.—Clark, W. B.
Psephodus.—Branson, E. B.
Pseudamusium.—Park, J.; Stobbs, J. T.
Pseudasaphus.—Schmidt, F. von.
Pseudocidaris.—Dacqué, E., 2.
Pseudocrinites.—Schuchert, C.
Pseudocucullæa.—Schmidt, F. von, 2.
Pseudodiadema.—Loriol, P. de, 2.
Pseudoheligmus.—Morgan, J. de, 2.
Pseudolabis.—Matthew, W. D., 2.
Pseudomelania.—Bellini, R., 3; Blake, J. F., 2.
Pseudomorphs.—Bygdén, A.; Meunier, S., 3; Schwantke, A., 2.
Pseudosaccoma.—Remeš, M.
Pseudosageceras.—Nœtling, F., 4.
Pseudotragus.—Schlosser, M.
Pseudozaphrentoides.—Stuckenberg, A.
Pskov Gov. (Russia).—Sodoffski, G.
Psygmophyllum.—Seward, A. C., 3.
Pteraspis.—Drevermann, F., 2.
Pteria.—Woods, H.
Pteridosperms.—Zeiller, R., 5.
Pterinopecten.—Stobbs, J. T.
Pterophyllum.—Seward, A. C., 2.
Pterygotus.—Sarle, C. J.
Ptilodictya.—Hennig, A.
Ptychites.—Martelli, A.
Ptycholepis.—Eastman, C. R., 2.
Ptychopyge.—Schmidt, F. von.
Pucherite.—Cesàro, G., 2.
Pugnellus.—Wilckens, O.
Pukus Semanggol (Perak).—Jones, T. R.; Newton, R. B., 2.
Pulli, Mte. (Venetia).—Gregorio, A. de.
Pulo Laut (Borneo).—Volz, W., 2.
Pumice-sand, Westerwald.—Behlen, H.
Punjab (India).—Jentzsch, A., 2; Walcott, C. D., 2.
Puntaloni (Dalmatia).—Waagen, L., 2.
Purpuria.—Blake, J. F., 2.
Purpurite.—Graton, L. C.
Purpuroidea.—Choffat, P.; Krumbeck, L.
Put-in-Bay I. (L. Erie).—Kraus, E. H.
Putley Cockshoot (Hereford).—Moore, H. C., 2.
Puy-de-Dôme (Auvergne).—Boubée, E.; Stehlin, H. G., 2.
Puzosia.—Wollemann, A.
Pycnodus.—Musy, M.; Stromer, E., 3.
Pyle (Glamorgan).—Richardson, L., 3.
Pyralophodon.—Ameghino, F., 7.
Pyramidella.—Péron, A.
Pyrazus.—Morgan, J. de, 2.
Pyrenees (French).—Bertrand, L., 11 & 12; Boule, M.; Carez, L.; Dop, P.; Martel, E. A., 9; Mascart, —; Mengel, O.; Roussel, J., 1–3; Termier, P., 4 & 6.
Pyrford (Surrey).—Bullen, R. A., 3.
Pyrites, Bosnia, &c.—Katzer, F., 4.
——, crystals, &c.—Brauns, R., 4; Dorlodot, L. de; Schaller, W. T., 3; Smyth, C. H., Jun., 2.
——, Erzgebirge (Saxon).—Baumgærtel, B., 3; Beck, R., 2; Viebig, W.
——, Grisons.—Kœnigsberger, J., 2.
——, Hungary.—Lackner, A.; Mauritz, B.
——, Mt. Lyell (Tasm.).—Gregory, J. W.
——, natural history of.—Rudler, F. W.
——, Peru.—Masias, M. G., 2.
——, Thames goldfield.—Paul, M.
——, United States production.—Day, D. T.
——, Venetia.—Piutti, A., 2.
——, Wisconsin.—Hobbs, W. H., 3.
Pyrochroite.—Sjœgren, H.
Pyrolusite, Broken Hill.—Walpole, G. S.
Pyromorphite, radium in.—Danne, J.
Pyropsis.—Wilckens, O.
Pyrotherium, attitude of.—Gaudry, A., 2.
Pyroxene. *See* Augite.
Pyroxenite, Ceylon.—Coomáraswámy, A. K.
——, Urals.—Duparc, L., 4.
Pyrrhotite, Ontario.—Dickson, C. W.

Quarries, Great Britain, &c.—Home Office, 1–4.
——, Rome.—Stella, A.
Quartz.—Billows, E., 1 & 2; Goldschmidt, V.; Grebel, A.; Hobbs, W. H., 2; Johansson, H. E.; Martini, J.; Waring, G. A.

Quartz - bostonite, Rézbánya. — Windhager, F.
—— keratophyre, Wisconsin. — Weidman, S.
—— -norite.—Elsden, J. V., 2 & 4; Schaub, L.
—— pebbles, corrosion of.—Smyth, C. H., Jun., 2.
—— -porphyry, Lagorai (Cima di).—Trener, G. B.
——, pyrites after.—Smyth, C. H., Jun., 2.
—— schist, Norway.—Thelen, P.
——, solubility of.—Spezia, G.
—— vein-inclusions, Tromsö.—Sjœgren, H., 2.
—— -wedges, use of.—Evans, J. W., 11.
Quartzite, Lochowitz.—Liebus, A.
——, Perthshire.—Barrow, G.
——, South Australia.—Woolnough, W. G., 2.
——, Transvaal.—Kynaston, H., 3 & 4.
Quaternary, Alpes-Maritimes coast.—Caziot, E.
——, Apulia.—Bassani, F., 3; Gasparis, A. de, 3.
——, Baltic.—Howorth, Sir H. H., 2.
——, Belgium.—Van Ertborn, O., 2.
——, Buenos Aires.—Reche, O.
——, Colorado.—Capps, S. R.
——, Crete.—Bate, (Miss) D. M. A.
——, Denmark.—Grœnwall, K. A., 3; Hartz, N., 3; Hintze, V., 2; Madsen, V., 2; Nordmann, V., 1–3.
——, East Anglia.—Harmer F. W., 1–3.
——, Germany (N.). — Beyschlag, F.; Deecke, W., 1 & 3; Grœnwall, K. A., 3; Menzel, H.; Raab, O.
——, Iceland.—Kræbel, W. von, 1 & 2; Pjetursson, H., 2.
——, Iowa.—Beyer, S. W., 3.
——, Limburg (Dutch).—Uhenbroek, G. D.
——, Montreal.—Buchan, J. S.
——, New York.—Fairchild, H. L., 4; Fuller, M. L.; Sarle, C. J., 2.
——, Ontario. — Wilson, A. W. G., 1 & 2.
——, Portugal.—Choffat, P., 3 & 6.
——, Rhenish Prussia.—Holzapfel, E.
——, Rhône Valley, Lower.—Collot, L.
——, Saratov Gov.—Pavlov, A. V.
——, Scandinavia.—Hœgbom, A. G., 1 & 2; Kurck, C.; Munthe, H., 3.
——, Schleswig-Holstein. — Gagel, C., 2 & 4.
——, Schaffhausen.—Meister, J., 1 & 2.
——, Sylt (I. of).—Geinitz, F. E.
——, Thuringia, &c. — Beyschlag, F.; Wagner, R.
——, Wiesbaden.—Steuer, A., 3.
——, Wisconsin.—Berkey, C. P., 2.
——. *See also* Drift, *&c.*
Quebec (Canada).—Adams, F. D.; Bell, R.; Cirkel, F., 1 & 2; Clarke, J. M., 7.
Quedlinburg (Germany).—Nehring, A.
Queensland (Australia).—Ball, L. C., 1 & 2; Cameron, W. E.; Clotten, E.; Dixon, R.; Dunn, E. J.; Dunstan, W. R., 9; Fawns, S., 2; Smith, G.; Syson, R. C.; Williams, C. J. R.
Queenstown (N.Z.).—Hogg, E. G.
Quei Chow (China).—Beelich, H.
Quercus.—Maury, C. J.; Palibin, I. V.; Stanton, T. W.
Quercy (Guienne).—Stefano, G. de.
Queretaro (Mex.).—Villarello, J. D., 4.
Quicksilver, California.—Day, D. T.
——, China.—Beelich, H.
——, Hungary.—Illés, W.
——, Mexico.—Capilla, A.; Villarello, J. D.

Rabertshausen (Hesse).— Chelius, C.; Klemm, G., 6.
Radioactivity, mineral springs &. — Blanc, G. A.; Boltwood, B. B.; Headden, W. P.; Henrich, F.
——, minerals &.—Boltwood, B. B., 2; Danne, J.; Muñoz del Castillo, J., 1 & 2; Strutt, R. J., 1 & 2; *see also* Minerals.
Radiolaria, Cambrian.—Bergt, W., 2.
——, Cretaceous.—Squinabol, S., 3.
——, Jurassic.—Lugeon, M.
——, Tertiary.—Clark, W. B.
Radiolitella.—Douvillé, H., 3.
Radiolites.—Morgan, J. de, 2.
Radiopora.—Péron, A.
Radium-minerals.—Baskerville, C., 1–3; Landin, G.; Mawson, D.; Rutherford, E.; Sjœgren, H., 3 & 4; Stobbs, J. T.
Radmer (Styria).—Redlich, K. A.
Radnorshire.—Herries, R. S., 2; Lapworth, H., 4; Woodward, A. S., 6.
Radula.—Dainelli, G.
Radzein (Bohemia).—Cornu, F.; Zimmermann, R.
Raguhn (Anhalt).—Linstow, O. von, 2.
Raibl (Carinthia).—Lodin, A.
Rain, Vesuvius &.—Lorenzo, G. de, 6; Semmola, E., 2.
Rainfall, earthquakes &.—Clements, H.
——, water-level, N. France &.—Gosselet, J., 3.
Rain-water percolation, soils &. — Sutherst, W. F.
Raised beaches, Algeria.—Lamothe, —.
——, Baltic.—Howorth, Sir H. H., 2.
——, Bridlington, &c.—Muff, H. B.
——, Devon.—Hunt, A. R., 5.
——, Greece, &c.—Négris, P.
——, Ireland (S.).—Hunt, A. R., 5; Muff, H. B.; Wright, W. B.
——, Nantucket I.—Gulliver, F. P., 3.
——, Ontario.—Bell, R.
——, Portugal.—Choffat, P., 6.
Raitz (Moravia).—Ržehák, A.
Ramphostomella.—Canu, F.
Ramsgate (Kent).—Whitaker, W., 7.
Randen (Schaffhausen).—Rollier, L., 5.
Raniganj (Bengal).—Stonier, G. A., 2.
Rapakivi granite, Finland.— Hackman. V.

Rare earths. — Baskerville, C., 1-3; Boltwood, B. B., 2.
Raritan Bay (N.J.).—Weller, S., 1 & 2.
Raspenau (Bohemia).—Richter, K.
Raspite.—Hlawatsch, C., 2.
Rathymotherium.—Ameghino, F., 7.
Ražnac (Dalmatia).—Schubert, R. J., 5.
Reading (Berks). — Bennett, F. J.; Monckton, H. W., 3.
Reading Blue Limestone, Kansas. — Smith, A. J.
Receptaculites.—Chapman, F., 4.
Reclus, E. *Obit*.—*See* Geddes, P.; Krapotkin, Prince P.
Redhill (Surrey).—Young, G. W., 2.
Redjang-Lebong (Sumatra).—Ivey, J. H.
Redondite, Martinique.—Lacroix, A., 4.
Red-Wall Formation, Arizona.—Reagan, A. B., 3 & 4.
Refraction, index of.—Hotchkiss, W. O.
Refractometer.—Smith, G. F. H.
Reibisch, T. *Obit*.—*See* Heller, K. M.
Reichenau (Bohemia).—Hinterlechner, K.
Reigate (Surrey).—Young, G. W., 2.
Reinach, A. von. *Obit*.—*See* Kinkelin, F.
Rejstrup (Fyen).—Madsen, V.
Remopleurides.—Reed, F. R. C.
Renault, B. *Obit*.—*See* Scott, D. H., 3.
Reptilia, Cretaceous.—Dollo, L.; Fritsch, A., 2; Koken, E.; Merriam, J. C., 4; Nopcsa, F., 1 & 3; Osborn, H. F., 4; Stanton, T. W.; Sternberg, C. H.; Williston, S. W., 3; Woodward, A. S., 3.
——, extinct.—Lankester, E. R.
——, Jurassic.—Benecke, E. W.; Blake, J. F., 2; Jækel, O., 4; Osborn, H. F., 3 & 10; Schmidt, W. E.; Woodward, A. S., 5.
——, marine fossil.—Fraas, E., 2.
——, Permian.—Broili, F., 2; Case, E. C., 1-3; Hausse, R.; Schrœder, H.
——, Permo-Triassic. — Broili, F.; Broom, R., 1, 2, 4, 5, & 7; Rogers, A. W., 4; Seeley, H. G., 1-3.
——, Tertiary. — Andrews, C. W.; Janensch, W.; Piaz, G. dal; Stefano, G. de.
——, Triassic.— Branson, E. B., 2; Huene, F. von, 1 & 2; Jækel, O., 1 & 6; Lomas, J.; Merriam, J. C., 1 & 2; Williston, S. W., 2; *see also* Dinosauria, Permo-Triassic, *&c.*
Reptilian footprints, Jura-Trias.—Lull, R. S.
Reptoflustrina.—Péron, A.
Retepora.—Canu, F.; Clark, W. B.
Retinite.—Nœrregaard, E. M.
Retusa.—Clark, W. B.; Wilckens, O.
Reuss Valley (Switzerland).—Muehlberg, F.
Revelstoke District (B.C.).—Carmichael, H.
Revigliano I. (Bay of Naples).—Lorenzo, G. de, 3.
Rex, Mt., Coalfield (Tasm.).—Twelvetrees, W. H., 3.
Rézbánya (Hungary).—Windhager, F.
Rezende (Rhodesia).—Woodburn, J. A.
Rhabdocarpus.—Grand' Eury, F. C., 2.
Rhabdocidaris.—Airaghi, C., 3.
Rhabdophyllia.—Koby, F.
Rhadinichthys.—Tornquist, A., 4.
Rhætic, Gloucestershire. — Richardson, L., 1, 3, 4, & 9.
——, Monmouthshire.—Richardson, L., 2.
——, Somerset. — Short, A. R., 2; Wickes, W. H.
——, type-specimens.—Allen, H. A.
——, Tyrol.—Fuchs, T., 8.
Rhaphanocrinus.—Hudson, G. H.
Rhayader (Radnorshire). — Lapworth, H., 4; Woodward, A. S., 6.
Rhenish Bavaria.—Kohler, E.; Regelmann, C.; Reindl, J., 2.
—— ——, Devonian diabase.—Brauns, R., 5.
—— Prussia (Germany).—Kœnen, K.; Meunier, F., 2; Mueller, G., 2.
Rhenoster Kop (Transvaal).—Mellor, E. T., 5 & 7.
Rheophax.—Jensen, H. I.
Rhine Valley (Germany).—Beyschlag, F.
—— —— knolls, St. Gallen.—Frueh, J.
Rhine-Hesse (Germany).—Stoltz, K.
Rhinoceros.—Osborn, H. F., 5; Weber, M.
Rhinostodes.—Vigliarolo, G.
Rhipidogyra.—Koby, F.; Missuna, A.
Rhizomopteris.—Seward, A. C.
Rhizophyllum.—Shearsby, A. J.
Rhodesia (S.A.).—Cameron, J.; Cairncross, W. H.; Mennell, F. P., 1-4; Molyneux, A. J. C., 1 & 2; Parsons, C. E.; Warth, T.; Woodburn, J. A.
Rhön Mts. (Germany).—Beyschlag, F.
Rhône Valley, Lr. (France).—Collot, L.; Sayn, G.
Rhopalastrum.—Squinabol, S., 3.
Rhopalodictyum.—Clark, W. B.
Rhyncholithes & *Rhynchoteuthis*. — Bortolotti, C., 2.
Rhynchonella.—Dacqué, E., 2; Krumbeck, L.; Martelli, A.; Masias, M. G., 2; Rau, K.; Upton, C.
Rhynchopterus.—Bœhm, J.
Rhyolite, Arizona.—Guild, F. N.
——, Corsica.—Deprat, J., 6.
——, New Zealand.—Sollas, W. J., 2.
Rhyphus.—Meunier, F.
Rhytina.—Lorenz von Liburnau, L.
Rican (Bohemia).—Pelikan, A.
Richter, E. *Obit*.—*See* Ampferer, O., 3
Richthofen, F., Baron von. *Obit*.—*See* Anon., 11; Geikie, Sir A., 4; Willis, B., 2.
Ricketts, C. *Obit*.—*See* Marr, J. E.
Riebeckite.—Murgoci, G. M.; Souza-Brandão, V. de; Termier, P., 2.
Ries, Bavarian.—Ammon, L. von, 2.
Riesengebirge (Silesia).—Milch, L., 3; Rimann, E.; Vorwerg, O.

Riffelhorn (Zermatt).—Bonney, T. G., 8.
Ringicula.—Morgan, J. de, 2.
Ripple-mark, origin of.—Ayrton, H.
—— ——, Tertiary.—Rothpletz, A.
Rissoa.—Clark, W. B.
Riszkania (Galicia).—Wójcik, K., 2.
Rite, Mte. (Cadore).—Airaghi, C., 2.
River-erosion.—Yachevski, L., 2.
River-robbing. — Carter, W. L., 2; Reusch, H.
Rizzonite, Tyrol.—Proboscht, H.
Road-metal, Fife.—Elsden, J. V., 3; Joly, J.
——, Switzerland.—Hezner, L.
Robergia.—Wiman, C., 3.
Roberts, I. *Obit*.—*See* Ball, Sir R. S.; Marr, J. E.
Rochdale (Lancs).—Baldwin, W.
Roche-au-Loup Cave, Yonne.—Parat, A.
Rochefort (Namur).—Martel, E. A., 3 & 4.
Rochers rouges (Mentone).—Boule, M., 7.
Rochester (Kent).—Dibley, G. E., 2.
Rock-classification.—Marr, J. E., 2.
—— -cleavage.—Leith, C. K.
—— -joints, simultaneous.—Becker, G. F., 2.
—— -metamorphism.—Van Hise, C. R.; *see also* Contact-metamorphism, *&c.*
—— -salt.—Kohler, E., 2; Van't Hoff, J. H., 2–6.
—— -sections.—Launay, L. de, 4.
—— -temperature, Tauern Tunnel. — Becke, F., 1 & 2.
—— transportation, Pyrenees. — Bertrand, L., 11.
—— weathering.—Warth, H.; *see also* Rocks, eroded, &c.
Rockwell, A. P. *Obit*.—*See* Termier, P., 3.
Rocks, desert blackened.—Blake, W. P., 2; Lucas, A.
——, eroded cavities in.—Baron, R.; Bonney, T. G., 3; Ferrar, H. T.
——, pebbles &.—Lebour, G. A.
——, text-book on.—*See* Petrology.
Rocky Mts. (Canada).—Ogilvie, I. H.; Sherzer, W. H.
—— —— (U.S.A.).—Keyes, C. R., 1 & 2; Reagan, A. B., 2.
Rodents, Quaternary.—Major, C. I. F.
——, Tertiary.—Sinclair, W. J.
Rodeo (Mex.).—Farrington, O. C.
Romángladna (Hungary).—Schafarzik, F.
Rome (Italy).—Angelis d'Ossat, G. de, 2; Cerulli-Irelli, S.; Clerici, E., 1–3 & 6; Dainelli, G., 2; Meli, R., 1 & 2; Moderni, P., 2; Orzi, D.; Stella, A.; Verney, L., 1–3; Verri, A., 3 & 4; Zaccagna, D.
Römer Spring (Bad Ems).—Fresenius, H.
Romsdal (Norway).—Reusch, H.
Roncà (Venetia).—Gregorio, A. de.
Rondout (N.Y.).—Ingen, G. V.
Rorschach (St. Gallen).—Frueh, J.
Rosebud Indian Reservation (S. Dak.).—Reagan, A. B., 5.
Rosseto (Elba).—Ermisch, K.
Rossignol collection.—Stefano, G. de.
Ross-shire (Scotland).—Murray, Sir J., 2 & 3; Peach, B. N., 1 & 2.
Rostellaria.—Locard, A.
Rostock (Mecklenburg).—Grœnwall, K. A.
Rotalia.—Steuer, A., 2.
Rothenberge (Silesia).—Sturm, F.
Roudoule Valley (Alpes Maritimes).—Bertrand, L., 2; Guébhard, A.
Rousselia.—Douvillé, H., 3.
Rowley Regis (Staffs.).—Warth, H.
Rozzo (Istria).—Manek, F.
Rubi R. (Congo Free State).—Preumont, G. F. J.
Ruby.—Brauns, R., 2; Holland, T. H., 2; Kunz, G. F.
Ruda (Transylvania).—Bauer, J.
Rüdersdorf (Brandenburg).—Raab, O.
Rudistæ, Cretaceous.—Dainelli, G., 1–3 & 8; Douvillé, H., 3; Toucas, A., 1 & 2.
Rudok (Asia).—Rawling, C. G.
Rügen I. (Baltic).—Grœnwall, K. A., 3.
Ruhr R. (Westphalia).—Krusch, —.
Rum I. (Hebrides).—Harker, A., 5.
Rumania.—Aron, —; Newton, R. B., 5; Nicolau, T., 1 & 2; Sevastos, R.; Simionescŭ, I., 2.
Rush (Co. Dublin).—Matley, C. A.
Russia, Carboniferous Limestone. — Stuckenberg, A.
——, Cretaceous divisions in.—Pavlov, A. P.
——, Geological Survey.—Karpinski, A. P.
——. *See also* Crimea, Podolia, *&c.*
Rustenburg (Transvaal).—Holmes, G G., 2.
Rutivaara (Norrbotten). — Wilkinson, W. F.
Rutley, F. *Obit*.—*See* Rudler, F.W., 2.
Ruts, Godesberg trachyte-surface. — Fliegel, G.
Rzeszow (Galicia).—Friedberg, W.

Saale Valley (Germany).—Wagner, R.
Saare coalfield, Rhenish Bavaria, &c.—Kohler, E.
Saas Fee (Valais).—Bonney, T. G., 8.
Sadong (Borneo).—Huxham, B. H.; Scrivenor, J. B., 3.
Sadowara (Japan).—Iki, T.
Sagron (Venetia).—Ržehák, A., 4.
Sahara (N. Africa).—Flamand, G. B. M.; Foureau, F., 1 & 2; Haug, É., 1–3; Lapparent, A. de.
Sahel Mts. (Algeria).—Lamothe, —.
St. Annaberg (Silesia).—Wysogórski, J., 3.
St. Cassian (Tyrol).—Skeats, E. W.
St. Croix Dalles region (Wisc. & Me.).—Chamberlin, R. T.
St. David's (Pembroke).—Elsden, J. V., 2.

St. David's gold-mine (Merioneth). — Huddart, L. H. L.
St. Erth (Cornwall).—Stephens, F. J.
St. Flour (Cantal).—Lauby, A., 2.
St. Gallen (Switzerland).—Falkner, C.; Frueh, J.; Schardt, H.
St. Helen's Colliery (Workington). — Brown, M. W., &c.
St. Ives (Cornwall).—Stephens, F. J.
St. Jean - de - Buèges (Hérault). — Nicklès, R., 2.
St. Jennet (Alpes - Maritimes). — Ambayrac, —.
St. Joachim Valley (Bohemia).—Stěp, J.
St. John (W.I.).—Hœgbom, A. G., 4.
St. Joseph (Mo.).—Owen, (Miss) L. A.
St. Lawrence R. (N. Am.). — Wilson, A. W. G.
St. Louis Exhibition, 1904.—Bauerman, H.; Grimsley, G. P., 2.
St. Martin (Alpes-Maritimes). — Bertrand, L., 7.
St. Minver (Cornwall).—Bather, F. A., 2; Crick, G. C., 3; Flett, J. S.; Fox, H., 1 & 2; Ussher, W. A. E., 2; Woodward, H.
St. Pierre, Côte (Canada). — Preiswerk, H., 2.
St. Pölten (Moravia).—Suess, F. E., 3.
St. Roch (Alpes - Maritimes). — Bertrand, L., 6.
St. Sauveur (Alpes-Maritimes). — Bertrand, L., 5.
St. Thomas (W.I.).—Hœgbom, A. G., 4.
St. Vallier (Alpes-Maritimes). — Guébhard, A., 2 & 4.
St. Véran (Hautes-Alpes). — Termier, P., 2.
St. Vincent (W.I.).—Anderson, T., 2.
Salamanca (N.Y.).—Glenn, L. C., 2.
Salcombe (Devon).—Ussher, W. A. E.
Salerno (Campania).—Bassani, F., 4; Galdieri, A., 2; Oglialoro-Todaro, A., 3.
Salesius Hill (Bohemia).—Hibsch, J. E.; Hœfer, H., 2.
Salford (Lancs).—Dawkins, W. B., 2.
Salima Valley (Syria).—Krumbeck, L.
Salinity, Modena artesian water.—Pantanelli, D.
Salisbury Crags (Edinburgh).—Traquair, R. H., 3.
Salt, Asia Minor.—Simmersbach, B.
——, Bavaria.—Kohler, E., 2.
——, Chile.—Sundt, J.; Yunge, G.
—— crystals, Mont-Pelé eruption. — Lacroix, A., 7.
—— deposits, origin of.—Miers, H. A.
——, Hanover.—Kœnen, A. von, 3.
——, Ischl.—Aigner, A.
——, Tyrol.—Rose, —.
——, United States.—Day, D. T.; Emmons, S. F., 2.
Salt-lakes, Mexico.—Philippi, L.
—— ——, New Mexico.—Darton, N. H., 3.
—— ——, Tomsk Gov.—Friz, W.
Salt, oceanic deposits &.—Van't Hoff, J. H., 2–6.
—— pans, Transvaal.—Kynaston, H., 4 & 6.
——, sea-water.—Chevallier, A.
——. *See also* Potash, *&c.*
Salt Range (Panjab). — Diener, C.; Jentzsch, A., 2; Walcott, C. D., 2.
Saltpetre, Chile.—Sundt, L.
Salts, Bilma alkaline.—Courtet, H., 2.
——, German (N.) alkaline.—Ochsenius, K.; Van't Hoff, J. H., 2–6.
Salzburg (Austria).—Crammer, H., 2; Fugger, E.; Gorjanović-Kramberger, K.
Salzgitter (Hanover).—Wunstorf, W.
Salzkammergut (Austria).—Aigner, A.; Mojsisovics, E. von, 2.
Samarskite, Ceylon.—Coomáraswámy, A. K., 4.
Sambre R. (Belgium).—Brien, V., 2.
Samland (E. Prussia).—Krause, P. G.; Meunier, F.
—— coast-shoals (E. Prussia).—Schellwien, E.
Samos (Ægean Sea). — Weber, M.; Schlosser, M.
Samwel Cave (Cal.).—Furlong, E. L.
San Francisco (Cal.).—Osmont, V. C.
San Francisco Mt. (Ariz.). —Atwood, W. W.
San Juan (Mendoza).—Tornquist, A., 4.
San Julian de Villatorta (Barcelona).—Neviani, A., 2.
San Luis (Peru).—Dueñas, E. I.
San Luis Potosi (Mex.). — Capilla, A.; Laird, G. A.
San Luiz (Estremadura). — Choffat, P., 2 & 4.
San Marcello Pistojese (Tuscany). — Billows, E., 1 & 2.
San Martin, Lake (Patagonia).—Crosthwait, H. L.
San Pedro District (Mex.). — Laird, G. A.
San Polo Matese (Molise).—Fittipaldi, E. U.
Sandalodus.—Branson, E. B.
Sand-dunes, Sweden.—Nilsson, A.; *see also* Dunes, Landes, *&c.*
Sands, classification by size.—Atterberg, A., 1 & 2.
——, English Tertiary.—Fisher, O., 2.
——, monazite.—Dunstan, W. R., 9.
——, New Jersey moulding.—Kuemmel, H. B., 3.
——, Oriolo Miocene.—Crema, C.
——, sediments &.—Reade, T. M., 3.
——, Thorium.—Evans, J. W., 8.
——, Tunisian desert.—Flick, —.
——, United States glass.—Day, D. T.
——, Upsala Quaternary.—Gustafsson, J. P.
Sandstones, Antarctic.—Nordenskjæld, O.; Scott, R. F.
——, architecture &.—Anon., 27.
——, Bohemian Eocene. — Hibsch, J. E.; Hœfer, H., 2.

Sandstones, British.—Goodchild, J. G.; Home Office, 4.
——, Condroz.—Destinez, P., 2.
——, Dumfries Permian.—Anon., 25.
——, flexible. *See* Itacolumite.
——, Gebel Ahmar.—Barron, T.
——, Jura.—Bourgeat, —.
——, New York Devonian.—Dickinson, H. T.
——, Paraguay.—Milch, L.
——, South Australia.—Woolnough, W. G., 2.
——, Sydney columnar.—Morrison, M.
——, Transvaal. — Kynaston, H., 4; Mellor, E. T., 4.
——. *See also* Nubian, *&c.*
Sandwich Is. *See* Hawaiian Is.
Santa Cruz Formation, Patagonia.—Martin, H. T.; Scott, W. B., 1–3; Sinclair, W. J., 3.
Santa Maria volcano (Guatemala).—Ordóñez, E.
Santa Maria del Pianto (Phlegræan Fields).—Manasse, E.
Santa Maria Tiberina (Umbria).—Airaghi, C.
Santander (Spain).—Termier, P., 5.
Santiago (Cuba).—Souder, H.
Santo I. (New Hebrides).—Chapman, F., 3.
Santorin (Cyclades).—Lacroix, A., 13 & 14.
Sapindus.—Stanton, T. W.
Sapphires.—Brauns, R., 2; Kunz, G. F.
Sapropel-rocks, origin of.—Potonié, H., 2 & 3.
Saratov (Russia). — Pavlov, A. V.; Surgunov, N. E.
Sarawak (Borneo).—Scrivenor, J. B., 3.
Sarcorhamphus.—Lœnnberg, E.
Sarcostrobilus.—Fliche, P.
Sardinia. — Bassani, F., 6; Dannenberg, A.; Lovisato, D.; Rimatori, C.; Riva, C.; Sacco, F., 6; Tornquist, A., 1, 3, & 5; Vagliarolo, G.; Viola, C., 2.
Sarsen-stones, Bradenham.—Spicer, E. C.
——, Pyrford.—Bullen, R. A., 3.
Saussurite.—Hezner, L.; Ugolini, R., 3.
Sauwagesia.—Douvillé, H.
Savoy (France).—Favre, J. N.; Fliche, P., 2; Girardin, P., 1 & 2; Mougin, P.; Whymper, E.
Sawatch Range (Colo.).—Capps, S. R.
Saxony.—Bergt, W., 1 & 2; Beyschlag, F.; Credner, H.; Deninger, K.; Kliver, —; Mann, O.; Petrascheck, W.; Stutzer, O.; Viebig, W.; *see also* Erzgebirge, *&c.*
Scala.—Clark, W. B.; Morgan, J. de, 2.
Scalaria.—Wilckens, O.
Scaldia.—Stobbs, J. T.
Scalpellum.—Tièche, M.
Scandinavia, Quaternary deposits. — Hœgbom, A. G.; Howorth, Sir H. H., 3.
——, watershed.—Reusch, H.
Scania (Sweden).—Nilsson, A.; Kurck, C.; Tœrnebohm, E.
Scaphites.—Smith, W. D.
—— -chalk, Brunswick.—Wollemann, A.
Scapolite, Madras Pres.—Vredenburg, E.
Scatopse.—Meunier, F.
Scelidotheriops.—Ameghino, F., 7.
Scenella.—Raymond, P. E., 2.
Schaffhausen (Switzerland).—Meister, J.; Rollier, L., 5.
Scheelite, British Columbia.—Atkin, A. J. R., 2.
Schemnitz (Hungary).—Mauritz, B.
Schists, Bavaria.—Glungler, G.
——, Britanny.—Brun, P. de.
——, Bukowina crystalline.—Vetters, H., 2.
——, conductivities of.—Thelen, P.
——, Congo Free State.—Preumont, G. F. J.
——, Devon.—Hunt, A. R., 2.
——, Greenland.—Emerson, B. K.
——, Gross-Venediger. — Weinschenk, E., 2.
——, Korea.—Carles, W. R.
——, New Mexico.—Keyes, C. R.
——, Perthshire.—Barrow, G.
——, Sudan.—Courtet, H.
——, Transvaal oldest.—Hatch, F. H., 1 & 4.
——, Western Alps crystalline.—Termier, P.
Schistomys.—Scott, W. B., 2.
Schizambon.—Hudson, G. H.
Schizaster.—Loriol, P. de, 2; Wilckens, O.
Schizodus.—Stobbs, J. T.
Schizoporella.—Clark, W. B.
Schizospondylus.—Fritsch, A., 2.
Schlangenberg (Altai).—*See* Smezhinogorsk.
Schlern District (Tyrol).—Skeats, E. W.
Schleswig-Holstein.—Gagel, C., 2 & 4; Gottsche, C.; Hansen, R.; Stolley, E., 2; Wolff, W., 2.
Schlœnbachia.—Choffat, P., 5; Richarz, P. S.
Schluchter (Baden).—Schnarrenberger, K.
Schneeberg (Tyrol).—Rose, —.
Schönberg (Moravia).—Bukowski, G. von, 2 & 4.
Schwarzen Berge (Salzburg).—Fugger, E.
Schwarzenberg (Saxony).—Beck, R.
Schwertz (Merseburg).—Hasse, E.
Schwyz, Canton (Switzerland).—Arbenz, P.
Sciadiocapsa.—Squinabol, S., 3.
Sciamys.—Scott, W. B., 2.
'Scotia' Expedition, Antarctic.—Bruce, W. S.
Scotland, arctic shell-beds in.—Jamieson, T. F., 2.
——, coalfields.—Simmersbach, B., 4.
——, Eastern Highland gneisses.—Callaway, C.
——, minerals from.—Rudler, F. W., 3.
——, mines, &c.—Home Office, 1–4.

Scotland. *See also* Aberdeen, Geological Survey, *&c.*
Scottish Antarctic Expedition.—Bruce, W. S.
—— freshwater lochs.—Murray, Sir J., 1–3; Wesenberg-Lund, C.
Scrivia (Liguria).—Issel, A., 5.
Scylliide.—Stromer, E.; 3.
Sea-cow, Steller's.—Abel, O.; Lorenz, von Liburnau, L.
Sea, distribution of land &.—Arldt, T.
——, influence on Flanders freshwater level.—René d'Andrimont, 1, 2, & 4.
——, regression of the.—*See* Land, changes of level.
—— -water, mineral matter in.—Salisbury, R. D., 2; salinity of.—Chevallier, A.
Seas, geological physics of shallow.—Hunt, A. R., 3.
Sedbury Cliff (Gloucester).—Richardson, L., 9.
Sedimentary rocks, classification of.—Marr, J. E., 2.
—— ——, Swiss Alps.—Schmidt, C., 3.
—— ——, Transvaal oldest.—Hatch, F. H., 1 & 4.
Sediments, sands &.—Reade, T. M., 3.
Seeds, Carboniferous plant-.—Arber, E. A. N., 3; Grand'Eury, F. C., 1–3; Scott, D. H., 2; Zalesski, M. D., 2.
Seefeld (Tyrol).—Ampferer, O., 2.
Seelisberg (Uri).—Pannekoek, J. J.
Segregations, igneous rock.—Park, J., 2.
Seine Valley, Lr. (France).—Dollfus, G. F., 4.
Seiser Alp (Tyrol).—Blaschke, F.; Lœhr, —von; Skeats, E. W.
Seismology, progress of.—Landi, H.; *see also* Earthquakes, *&c.*
Selemdzha R. (Siberia).—Khlaponin, A.; Yavorovski, P.
Selkirk Mts. (Canada).—Sherzer, W. H.
Sella Mt. (Tyrol).—Skeats, E. W.
Sellula.—Wiman, C., 2.
Selsey (Sussex).—Elsden, J. V., 2.
Selwyn, A. R. C. *Obit.*—*See* Ami, H. M.; Whitaker, W.
Seminula-Zone, Weston-super-Mare.—Sibly, T. F.
Semionotus.—Eastman, C. R., 2; Gorjanović-Kramberger, K.
Senegambia (W. Africa).—Chautard, J.
Senne Valley (Belgium).—Simoëns, G.
Senonian. *See* Cretaceous.
Sentinel Rock (Vict.).—Deane, H.
Sentis district (Switzerland).—Heim, Alb., 2; Schardt, H.
Septa.—Newton, R. B., 5.
Septarian Clay.—Linstow, O. von; Stoltz, K.
Septifer.—Basedow, H.
Sequanian, Neuchâtel.—Juillerat, E.
Sequoia.—Fliche, P., 3; Hartz, N., 2; Stanton, T. W.
Serchio, R. (Tuscany).—Ugolini, R., 2.
Serpenica (Istria).—Moser, L. K., 3.
Serpentine, Britanny.—Brun, P. de.
Serpentine, Canada.—Bell, R.
—— -conglomerate, Gippsland.—Thiele E. O.
——, Peloponnesus.—Deprat, J.
——, Perthshire.—Barrow, G., &c.
——, Philadelphia.—Jonas, (Miss) A. I.
——, Piedmont.—Roccati, A.
——, pseudo-.—Clarke, F. W.
——, structure of minerals forming.—Bonney, T. G., 8.
——, Wadi-Halfa.—Ugolini, R.
——, Yenisei.—Meister, A.
Serpula.—Rovereto, G., 2.
Serpulorbis.—Gregorio, A. de.
Serro (Minas Geraes).—Hussak, E.
Servia.—Sevastos, R.; Stevanović, S.
Sesia Valley (Piedmont).—Franchi, S.
Sethamphora, Sethocapsa, Sethocyrtis, & Sethopyramis.—Squinabol, S., 3.
Settlingstone (Northumberland).—Lespineux, G., 2.
Seveckenberge (Magdeburg).—Nehring, A.
Severn Valley (Gloucester).—Ellis, T. S.
Seymour I., 'Erebus' & 'Terror' Gulf (Antarctic).—Wiman, C., 4.
Sfax (Tunisia).—Flick, —.
Sgùrr of Eigg (Scotland).—Harker, A.
Shansi (China).—Shockley, W. H.
Shantung (China).—Hinde, G. J.; Woodward, H., 2.
Shari (French Sudan).—Courtet, H.
Shelburne (Ont.).—Bell, R.
Shell-conglomerate, Lessö I.—Nordmann, V.
—— -torsion.—Clarke, J. M., 5.
Shelly boulder-clay, Iceland.—Pjetursson, H.
Shide (I. of Wight).—Milne, J., 3.
Shiel, Loch (Scotland).—Murray, Sir J.
Shin, Loch, & Shin R.-basin (Scotland).—Murray, Sir J., 3; Peach, B. N., 2.
Shoal-water deposits, Bermuda Banks.—Biglow, H. B.
Shoals, Nantucket I.—Gulliver, F. P., 3 & 4.
——, Pomeranian coast.—Deecke, W., 5.
Shonkinite, Montana.—Pirsson, L. V., 2.
Shooter's Hill (Kent).—Salter, A. E., 4.
Shore, T. W. *Obit.*—*See* Anon., 12; Marr, J. E.
Shore-lines, Arctic Ocean.—Spencer, J. W., 2.
——, marine.—Issel, A., 2.
——, Nantucket I.—Gulliver, F. P., 2.
——. *See also* Land, changes of level of; Raised beaches, *&c.*
Shotover Hill (Oxon.).—Lamplugh, G. W., 4.
Shropshire.—Elles, G. L.; Fortey, C.; Herries, R. S., 2.
Shucknall Hill (Worcester).—Jones, A. G.
Shumardia.—Wiman, C.
Siagne Valley (Provence).—Guébhard, A., 7.

Siberia (Asia).—Gerasimov, A.; Herz, O. F.; Ijitski, N.; Ivanov, M.; Khlaponin, A.; Maddren, A. G.; Meister, A.; 1 & 2; Palibin, I. V.; Rippas, P.; Schmidt, F. von, 3 & 4; Spring, R., 2; Walsh, G. E.; Yachevski, L., 1 & 2; Yavorovski, P.; *see also* Tomsk, *&c.*
Siberian Ry., Central.—Friz, W.
Sicily.—Checchia-Rispoli, G.; Clerici, E., 4 & 5; Gregorio, A. de, 2 & 3; La Valle, G.; Manzella, E.; Rovereto, G., 3.
Sideronatrite.—Scharizer, R.
Sidlaw Hills (Forfar).—Dow, R.
Sigillaria.—Kœhne, W.
Sigmomys.—Ameghino, F., 8.
Signa (Tuscany).—Ristori, G., 2.
Sikhota-Alin Mts. (Primorsk).—Palibin, I. V.
Silesia.—Andreæ, A.; Berg, G.; Beyschlag, F.; Dathe, E.; Flegel, K., 1 & 2; Frech, F., 4–6; Friedrich, E. G.; Geisenheimer, P.; Guerich, G., 1 & 2; Milch, L., 3; Petrascheck, W., 3; Rimann, E.; Sachs, A., 2; Schmidt, A., 2; Sturm, F.; Wysogórski, J., 2 & 3.
Silica in Carboniferous Limestone. — Knight, N.
Silicate - analysis, microchemical. — Graber, H. V.
——, iron & soda.—Weyberg, Z., 3.
Silicates, action of silver-nitrate on.—Steiger, G.
——, dissolution in soils.—Cayeux, L., 6.
——, melting-points of.—Dœlter, C., 1, 2, & 4; Harker, A., 2; Miers, H. A.; Morozevich, I., 2; Vogt, J. H. L., 1 & 2.
Silsoe (Beds.).—Hopkinson, J.
Silurian, Bohemia.—Želízko, J. V.
——, Boulonnais.—Cornet, J.
——, Bulgaria.—Allachverdjeff, D. G.
——, Hereford.—Moore, H. C.
——, Ludlow.—Elles, G. L.
——, New York.—Grabau, A. W., 2; Hartnagel, C. A., 1 & 2; Hudson, G. H.; Ingen, G. V.; Sarle, C. J.; Shimer, H. W.
——, Normandy.—Bigot, A.
——, Ontario.—Grant, C. C.
——, Pembrokeshire.—Thomas, H. H., 2.
——, Sweden.—Munthe, H., 4; Sundbærg, G.
——, Trondhjem.—Kiær, J.
Silver, Argentina.—Rowbotham, J. McK.
——, Asia Minor.—Simmersbach, B.
——, Bolivia.—Bradley, D. H., Jun.
——, Brazil.—Hussak, E.
——, British Columbia.—Attwood, G.; Carmichael, H.; Robertson, W. F.
——, Chile.—Avalos, C. G.; Lucio, F. de; Yunge, G.
——, Colorado.—Collins, G. E.; Lindgren, W., 4.
——, Cornwall.—Home Office, 4.
——, Elba.—Ermisch, K.
——, Hungary.—Illés, W.
Silver, Indian Territory.—Taff, J. A.
——, Mexico.—Chance, H. M.; Laird, G. A.
——, New South Wales.—Pittman, E. F.
——, Peru.—Dueñas, E. I.; Masias, M. G., 1 & 2; Santolalla, F. M., 1–3.
——, Saxon Erzgebirge.—Beck, R.; Viebig, W.
——, Sweden.—Sundbærg, G.
——, Sumatra.—Ivey, J. H.
——, Tasmania. — Gregory, J. W.; Twelvetrees, W. H., 6–8.
——, Tuscany.—Ermisch, K., 2.
——, Tyrol.—Rose, —.
——, United States production. — Day, D. T.; Emmons, S. F., 2.
——, Utah.—Boutwell, J. M.
Silver-Cup Mines (B.C.).—Attwood, G.
Simbirskites.—Kœnen, A. von; Pavlov, A. P.
Simplimus.—Ameghino, F., 7.
Simplon massif (Pennine Alps).—Stella, A., 2.
Simplon Tunnel (Pennine Alps).—Derôme, J.; Fox, F.; Gerrard, J.; Heim, Alb.; Preiswerk, H.; Schardt, H., 3 & 4; Sulzer-Ziegler, E.
Simulia.—Meunier, F.
Sind (India).—Nœtling, F.
Sinemurian, Portugal.—Choffat, P., 2.
Sinj (Dalmatia). — Kerner, F. von, 2 & 4.
Sinopa.—Matthew, W. D., 3.
Siphonalia.—Clark, W. B.
Siphonotreta.—Chapman, F.
Sirenia, Tertiary.—Abel, O.; Lorenz von Liburnau, L.
Sisenna.—Bœhm, J.
Siva Oasis (Egypt).—Hohler, T. B.
Sivatherium, Adrianople.—Abel, O., 2.
Skagersholm (Gothland).—Blomberg, A., 2.
Skaraborg (Gothland).—Munthe, H., 4.
Skiodromes, crystal.—Becke, F., 3.
——. *See also* Crystallographic, *&c.*
Sköfde (Gothland).—Munthe, H., 2.
Skye (Hebrides).—Clough, C. T., 1 & 2; Stracey, B.
Slade, J., *Obit.*—*See* Woodward, H. B., 2.
Slags, melting-points of.—Dœlter, C., 1, 2, & 4; Harker, A., 2; Hlawatsch, C.; Miers, H. A.; Morozevich, I., 2; Weyberg, Z., 2; Vogt, J. H. L.; Zambonini, F., 4; *see also* Silicates, *&c.*
——, Wyoming natural.—Bastin, E. S.
Slates, cleavage of. — Fisher, O., 5; Harker, A., 3.
——, Manx.—Blake, J. F.
——, Saxony.—Bergt, W.
——, Snowdon.—Dakyns, J. R.
——, Tasmania.—Twelvetrees, W. H.
'Sleekburn' Valley (Northumberland). Woolacott, D.
Smezhinogorsk (Altai).—Spring, R., 2.
Smilčić (Dalmatia).—Schubert, R. J., 7.
Smithite.—Solly, R. H.

Smithsonite.—Hobbs, W. H., 3; Jecker, L.
Smittia.—Canu, F.; Neviani, A., 2.
Snake, Tertiary.—Janensch, W.
Snowdon (N. Wales).—Dakyns, J. R.
Snowy R. (Victoria).—Shearsby, A. J., 2.
'Soapstone Bed,' Colne.—Bolton, H., 2.
Soay, I. of.—Clough, C. T.
Sodalite, syenite with.—Thugutt, St. J.
Sodertorn (Upsala).—Geer, S. de.
Sodium, redistribution of.—Van Hise, C. R., 3.
Soignes (Hainault).—Rutot, A., 3.
Soils, analysis of.—Cayeux, L., 1 & 7; Crook, T.; Dumont, J.; Kilroe, J. R.
——, classification of.—Atterberg, A., 1 & 2; Guell, W.; Lagatu, H.
——, dissolution of silicates in.—Cayeux, L., 6.
——, Fife & Forfar.—Smith, W. G.
——, France.—Bogloslovski, N. A.
——, Hungary.—Gull, W.; Horusitzky, H.; László, G. von; Liffa, A.; Timkó, E.; Treitz, P.
——, Magdeburg.—Jacob, T.
——, minerals &.—Cayeux, L., 1, 3, 6, & 7; Delage, A.
——, Morocco.—Meunier, S., 6.
——, Queensland.—Dunstan, B.
——, rain-water percolation.—Sutherst, W. F.
——, Rhodesia.—Cameron, J.
——, Rome.—Orzi, D.
——, Russia.—Bogloslovski, N. A.
——, size-scale grading.—Atterberg, A., 1 & 2.
——, Sweden.—Hœgbom, A. G., 2; Sernander, R.
——, Transvaal.—Cross, A. F.
Solarium.—Deninger, K.; Newton, R. B., 6.
Solea.—Bassani, F., 3.
Solecurtus.—Wilckens, O.
Solen.—Weaver, C. E.
Solenocheilus & Solenomya.—Stobbs, J. T.
Soleure or Solothurn (Switzerland).—Rollier, L., 1, 4, 6, & 7; Schmidt, C.
Somaliland (N.E. Africa).—Arsandaux, H., 1–3; Dacqué, E., 1 & 2; Newton, R. B., 6.
Sommen Lake (Gothland).—Svedmark, E.
Somerset. — Balch, H. E.; Morgan, C. L.; Oriel, B.; Rudler, F. W., 3; Short, A. R., 1 & 2; Sibly, T. F.; Tutcher, J. W.; Vaughan, A., 3; Wickes, W. H.; Woodward, H. B., 7.
Sonderburg (Schleswig - Holstein).—Gottsche, C.
Sonninia.—Buckman, S. S.
Sonora (Mex.).—Blake, W. P., 3.
Sophora.—Palibin, I. V.
Sorrel, Mt. (Leicester).—Rastall, R. H., 3.
Sorrento (Campania).—Bœse, E.
Sorsogón (Luzon).—Becker, G. F., 3.
Souesite.—Hoffmann, G. C.
Soufrière, La (Guadeloupe).—Hovey, E. O.
Soulac (Médoc).—Degrange-Touzin, A.
South Australia.—Basedow, H.; Brown, H. Y. L.; Dennant, J.; Fawns, S., 2; Gascuel, L.; Gee, L. C. E.; Howchin, W.; Woolnough, W. G., 1 & 2.
South Orkneys.—Pirie, J. H. H.
Southampton (Hants).—Whitaker, W., 5.
Southern Cross (W. Austral.).—Gibson, C. G., 2.
Spain.—Bullen, R. A., 2; Muñoz del Castello, J., 1 & 2; Nicklès, R.
——. *See also* Catalonia, *&c.*
Spangolite.—Lindgren, W., 3.
Spaniolepis. — Gorjanović-Kramberger, K.
Spaniomys.—Scott, W. B., 2.
Sparnacian, Belgium.—Rutot, A., 2; Van Ertborn, O.; *see also* Tertiary.
——, Marne.—Leriche, M.
Sparth - Bottoms Quarry (Lancs).—Baldwin, W.
Spatangus.—Fourtau, R.
Spathic iron-ore, Dauphiné.—Camous, —.
Species, evolution of.—Raulin, V.
——, formation of a.—Walker, J. F.
Speeton Cliffs (Yorks).—Hobson, B.
Spelæology.—Martel, E. A., 8.
Sphærocystites.—Schuchert, C.
Sphærulitic rocks, Kirghiz District.—Jeremina, (Mrs.) E.
Sphalerite.—Hobbs, W. H., 3.
Sphenacanthus.—Traquair, R. H., 2.
Sphenophyllum.—Scott, D. H., 4.
Sphenopteris.—Grand 'Eury, F. C., 3; Kidston, R., 3.
Sphyrænodus.—Toula, F.
Spirangium.—Sauvage, H. E., 2.
Spirifer.—Chapman, F., 5; Dun, W. S.; Loomis, F. B.; Thomas, I.; Vaughan, A.
Spiriferina.—Martelli, A.; Rau, K.; Vaughan, A.
Spirigera.—Martelli, A.
Spirillina.—Hucke, W.
Spirocyclina.—Schlumberger, C., 3.
Spirorbis.—Barrois, C., 2; Clark, W. B.; Rovereto, G., 2.
Spirula.—Clark, W. B.
Spitsbergen (Arctic).—Bæckstrœm, H.; Stevenson, J. J., 2 & 3.
Spodumene,—Kunz, G. F.
Spoleto (Umbria).—Lotti, B.
Spondylus.—Newton, R. B., 6.
Spongasteriscus.—Clark, W. B.
Sponges, calcareous.—Weinschenk, E., 3.
——, Jurassic.—Gregorio A. de, 2.
——, Quaternary.—Neviani, A., 3.
Spongodiscus, Spongolonche, Spongoprunum, & Spongotripus.—Squinabol, S., 3.
Sporangium-like organs of *Glossopteris.*—Arber, E. A. N.
Sportella.—Clark, W. B.

Sprechenstein (Tyrol). — Bonney, T. G., 8.
Springbok Flats (Transvaal).—Kynaston, H., 6; Mellor, E. T., 4 & 6.
Springs, Sweden.—Hofman-Bang, O.
Squatina.—Clark, W. B.
Squalodontidæ.—Piaz, G. dal.
Svapavaara (Sweden).—Wilkinson, W. F.
Stade (Hanover).—Beyschlag, F.
Staffelite.—Schwantke, A., 2.
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Trematis.—Reed, F. R. C.
Tremadoc Group, Merioneth.—Fearnsides, W. G.
Trent R. (Ontario).—Wilson, A. W.
Treuchtlinger Ry. (Bavaria).—Ammon, L. von, 2.
Triarthrus.—Wiman, C., 3.
Trias, Alps (N.E.),—Felix, J.
——, Asia.—Frech, F., 7.
——, Basilicata.—Lorenzo, G. de, 1 & 2.
——, Bear I. (Barents Sea).—Bœhm, J., 1 & 3.
——, Bohemia.—Jahn, J. J., 2; Petrascheck, W., 3.
Trias, Bulgaria.—Bakalow, P.
——, Cadore.—Mariani, E., 2.
——, Campania.—Bassani, F., 4; Galdieri, A., 2; Gasparis, A. de.
——, Cheshire, Lancashire, Shropshire, &c.—Lomas, J.
——, classification of the.—Fuchs, T., 8.
——, Colorado.—Williston, S. W., 2.
——, Corsica.—Tornquist, A., 3.
——, Dalmatia.—Kerner, F. von, 3.
——, distribution of.—Tornquist, A., 3.
——, Haute-Saône.—Laurent, A.
——, Hérault.—Nicklès, R., 2.
——, Hesse.—Lang, O.
——, Himalayas.—Diener, C.
——, Montenegro.—Del Campana, D.; Martelli, A.
——, New Jersey.—Eastman, C. R., 1–2; Ries, H., 6.
——, New Mexico.—Keyes, C. R., 3.
——, Perak.—Jones, T. R.; Newton, R. B., 2.
——, Prussia.—Beyschlag, F.; Raab, O.
——, Salt Range.—Jentzsch, A., 2.
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——, Sardinia.—Tornquist, A., 5.
——, Silesia.—Guerich, G., 2; Michel, R.; Wysogórski, J., 2 & 3.
——, Staffordshire.—Gibson, W., 2.
——, Sumatra.—Wichmann, A., 2.
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——, Wyoming.—Williston, S. W., 1 & 3.
——, Yunnan.—Mansuy, H.
——. *See also* Bunter, Keuper.
Triassic marls, colours of.—Moody, G. T.
Triceratops.—Hatcher, J. B.; Schuchert, C., 3.
Trichites.—Krumbeck, L.
Tricolocampe & Tricolocapsa.—Squinabol, S., 3.
Tridymite, Mont Pelé.—Lacroix, A., 5.
——. *See also* Melanophlogite.
Trieste (Austria).—Moser, L. K., 2.
Trigonia.—Benecke, E. W.; Bœhm, J.; Etheridge, R., *fil.*, 3; Krumbeck, L.; Loriol, P. de; Vetters, H.; Wilckens, O.
Trigonocarpon.—Scott, D. H.
Trilobite Mt. (N.Y.).—Shimer, H. W.
Trilobites, Cambrian.—Wiman, C., 3; Woodward, H., 2.
——, Devonian.—Reed, F. R. C., 2; Thomas, J.; Woodward, H.
——, Ordovician.—Persson, E.; Raymond, P. E., 2; Reed, F. R. C.
——, Permo-Carboniferous.—Morgan, J. de, 2.
——, '*Protaspis*'-stage.—Woodward, H., 5.

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Trinidad (W.I.).—Dunstan, W. R., 6; Guppy, R. J. L.
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Tripoli (N. Africa).—Manasse, E., 2.
Trisphæra.—Squinabol, S., 3.
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Tritylodon.—Broom, R., 6.
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Trochictis.—Hofmann, A.
Trochocyathus.—Dennant, J.
Trochodiscus.—Squinabol, S., 3.
Trochonema.—Raymond, P. E., 2.
Trochoseris.—Dainelli, G.
Trochosmilia.—Peron, A.
Trochus.—Blake, J. F., 2; Deninger, K.; Gregorio, G. de; Péron, A.
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Trondhjem (Norway).—Kiær, J.
Troödos Range (Cyprus).—Duke, J. C.
Troost, G. *Obit.*—*See* Glenn, L. C., 3.
Trophon.—Clark, W. B.
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Trou-de-Souci (Côte d'Or).—Martel, E. A., 5.
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Tuffs, Alberta.—Knight, C. W.
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——, re-illustration of.—*See* Palæontologia Universalis; Potonié, H., 4.
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——, pre-Glacial, Durham, &c.—Woolacott, D.
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Bull. Univ. Oregon. Bulletin of the University of Oregon. Eugen (Or.).
Bull. Wisc. Geol. & Nat. Hist. Surv. Bulletin of the Wisconsin Geological and Natural History Survey. Madison (Wis.).
Canad. Rec. Sci. Canadian Record of Science. (Natural History Society of Montreal.) Montreal.
Carnegie Inst. Wash., Publ. Carnegie Institution, Washington. Publications. Washington (D.C.).
Centralbl. f. Min. Centralblatt für Mineralogie, Geologie und Paläontologie. Stuttgart.
Chem. News. Chemical News. London.
Cold Spring Harbor Monogr. Cold Spring Harbor Monographs. Brooklyn (N.Y.).
Coll. Guard. Colliery Guardian. London.

Colo. Coll. Publ. Colorado College Publications. Colorado Springs (Colo.).
Com. Mus. Nac. Buenos Aires. Comunicaciones del Museo Nacional de Buenos Aires. Buenos Aires.
Comm. Commiss. Serv. geol. Portugal. Communicacões da Commissão do Serviço geologico de Portugal. Lisbon.
Comm. geogr. e geol. S. Paulo. Commissão geographica e geologica de São Paulo. São Paulo.
C. R. Acad. Sci. Paris. Comptes-rendus hebdomadaires des Séances de l'Académie des Sciences. Paris.
C. R. Assoc. franç. Av. Sci. Comptes-rendus de l'Association française pour l'Avancement des Sciences. Paris.
C. R. Congrès géol. internat. Comptes-rendus du Congrès géologique international. Vienna.
Dan. geol. Undersög. Danmarks geologiska Undersögelse. Copenhagen.
Denkschr. k. Akad. Wissensch. Wien. Denkschriften der kaiserlichen Akademie der Wissenschaften: Mathematisch-naturwissenschaftliche Classe. Vienna.
Eclogæ Geol. Helv. Eclogæ Geologicæ Helvetiæ. Lausanne.
Econ. Geol. Economic Geology. Lancaster (Pa.).
Econ. Papers, U.S. Geol. Surv. Economic Papers, United States Geological Survey. Washington.
Econ. Proc. R. Dublin Soc. Economic Proceedings of the Royal Dublin Society. Dublin.
Erläut. geol. Karte Baden. Erläuterungen zur geologischen Specialkarte des Grossherzogthums Baden. Heidelberg.
Essex Nat. Essex Naturalist, being the Journal of the Essex Field-Club. Stratford.
Fennia. Fennia. Bulletin de la Société de Géographie de Finlande. Helsingfors.
Field Columbian Mus. Field Columbian Museum Publications. Chicago (Ill.).
Földt. Közl. Földtani Közlöny. [Geological Magazine.] Budapest.
Gen. Rep. Geol. Surv. India. General Report on the Work carried on by the Geological Survey of India. Calcutta.
Geogn. Jahresh., München. Geognostische Jahreshefte. Munich.
Geogr. Journ. Geographical Journal (Royal Geographical Society). London.
Geol. & Nat. Hist. Surv. Minn. Geological and Natural History Survey of Minnesota. St. Paul (Minn.).
Geol. Fören. Stockh. Förh. Geologiska Föreningens i Stockholm Förhandlingar. Stockholm.
Geol. Karte Baden. Geologische Specialkarte des Grossherzogthums Baden. (Grossherzoglich badische geologische Landesanstalt.) Heidelberg.
Geol. Mag. Geological Magazine. London.
Geol. Surv. Canada. Contr. Canad. Palæont. Geological Survey of Canada. Contributions to Canadian Palæontology. Ottawa.
Geol. Surv. Mich. Rep. Geological Survey of Michigan. Reports. Lansing (Mich.).
Geol. Surv. Queensl., Publ. Geological Survey of Queensland: Publications. Brisbane. See also *Ann. Rep. Dep. Mines, Queensl.*
Geol. u. Palæont. Abh., Jena. Geologische und Palæontologische Abhandlungen. Jena.
Giorn. Geol. prat., Perugia. Giornale di Geologia pratica. Perugia.
Great Britain & Ireland. Home Office. Mines & Quarries. General Report and Statistics. London.
Hist. Berwicks. Nat. Club. History of the Berwickshire Naturalists' Club. Alnwick.
Hull Mus. Publ. Hull Museum Publications. Hull.
Indian Engin. Indian Engineering. Calcutta.
Internat. Cat. Sci. Lit. International Catalogue of Scientific Literature. London.
Iowa Geol. Surv. Iowa Geological Survey. Des Moines.
Irish Nat. Irish Naturalist. Dublin.
Jaarb. Mijnw. Ned. O.-Ind. Jaarboek van het Mijnwezen in Nederlandsch Oost-Indië. Amsterdam.
Jahrb. f. Berg- u. Hüttenw. Sachsen. Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen. Freiberg.
Jahrb. k.-k. geol. Reichsanst. Jahrbuch der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
Jahrb. k.-preuss. geol. Landesanst. Jahrbuch der königlich-preussischen geologischen Landesanstalt. Berlin.
Jahrb. k.-ung. geol. Anst. Jahrbuch der königlich-ungarischen geologischen Anstalt. Budapest.

Jahrb. nassauisch. Ver. f. Naturk. Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden.
Jahrb. Schw.-Alpenclub. Jahrbuch des Schweizer-Alpenclub. Bern.
Jahresb. k.-ung. geol. Anst. Jahresbericht der königlich-ungarischen geologischen Anstalt. Budapest.
Jahresb. naturh. Gesellsch. Nürnberg. Jahresbericht der naturhistorischen Gesellschaft. Nürnberg.
Jahresb. Ver. Naturw. Braunschweig. Jahresbericht des Vereins für Naturwissenschaft zu Braunschweig. Brunswick.
Jahresh. Ver. Naturk. Württ. Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart.
Journ. Asiat. Soc. Bengal. Journal and Proceedings of the Asiatic Society of Bengal. Calcutta.
Journ. Bombay Branch R. Asiat. Soc. Journal of the Bombay Branch of the Royal Asiatic Society. Bombay.
Journ. Canad. Mining Inst. Journal of the Canadian Mining Institute. Ottawa.
Journ. Ceylon Branch R. Asiat. Soc. Journal of the Ceylon Branch of the Royal Asiatic Society. Colombo.
Journ. Chem. Soc. Journal of the Chemical Society. London.
Journ. China Branch R. Asiat. Soc. Journal of the China Branch of the Royal Asiatic Society. Shanghai.
Journ. Cinc. Soc. Nat. Hist. Journal of the Cincinnati Society of Natural History. Cincinnati (Ohio).
Journ. Coll. Sci. Tokyo. Journal of the College of Science, Imperial University. Tokyo.
Journ. Conch., Paris. Journal de Conchyliologie. Paris.
Journ. East India Assoc. Journal of the East India Association. London.
Journ. Geol., Chicago. Journal of Geology. Chicago (Ill.).
Journ. Iron & Steel Inst. Journal of the Iron and Steel Institute. London.
Journ. Linn. Soc. Journal of the Linnean Society. London.
Journ. Northants Nat. Hist. Soc. Journal of the Northamptonshire Natural History Society and Field-Club. Northampton.
Journ. R. Agric. Soc. Journal of the Royal Agricultural Society. London.
Journ. R. Inst. Cornwall. Journal of the Royal Institution of Cornwall. Truro.
Journ. R. Micr. Soc. Journal of the Royal Microscopical Society. London.
Journ. Roy. Soc. N.S.W. Journal and Proceedings of the Royal Society of New South Wales. Sydney.
Journ. Soc. Arts. Journal of the Society of Arts. London.
Journ. Vict. Inst. London. Journal of the Transactions of the Victoria Institute. London.
Journ. & Proc. Hamilton Sci. Assoc. (Canada). Journal and Proceedings of the Hamilton Scientific Association. Hamilton (Canada).
K. danske Vidensk.-Selsk. Afh. Kongelige danske Videnskabernes-Selskabs naturvidenskablig og mathematisk Afhandlinger. Copenhagen.
K. danske Vidensk. Selsk. Skrift. Kongelige danske Videnskabernes Selskabs Skrifter. Copenhagen.
K. svenska Vet.-Akad. Handl. Kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
Kansas Univ. Sci. Bull. See *Sci. Bull. Univ. Kansas.*
Lond. Edinb. Dubl. Phil. Mag. London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science. London.
Magy. Kir. Földtani Intézet. See *Jahrb. k.-ung. geol. Anst.*
Maryland Geol. Surv. Maryland Geological Survey. Baltimore (Md.).
Matér. Carte géol. Suisse. Matériaux pour la Carte géologique de la Suisse. Commission géologique. Berne.
Mater. Geol. Russ. Materialien zur Geologie Russlands. Herausgegeben von der kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
Meddel. Upsala Univ. Min.-geol. Inst. Meddelanden från Upsala Universitets Mineralogisk-geologiska Institut. Stockholm.
Mém. Acad. Imp. Sci. St. Pétersb. Mémoires de l'Académie Impériale des Sciences. St. Petersburg.
Mém. Acad. Sci. Dijon. Mémoires de l'Académie des Sciences, Arts, et Belles-Lettres de Dijon.
Mém. Acad. Stanislas. Mémoires de l'Académie de Stanislas. Nancy.
Mem. Am. Acad. Arts & Sci. Memoirs of the American Academy of Arts and Sciences. Cambridge (Mass.).
Mem. Am. Mus. Nat. Hist., N.Y. Memoirs of the American Museum of Natural History. New York.

Mem. Asiat. Soc. Bengal. Memoirs of the Asiatic Society of Bengal. Calcutta.
Mem. Carnegie Mus., Pittsb. Memoirs of the Carnegie Museum. Pittsburg (Pa.).
Mem. Carta geol. Ital. Memorie descrittive della Carta geologica d'Italia. (R. Ufficio geologico.) Rome.
Mém. Com. géol. Russie. Mémoires du Comité géologique. St. Petersburg.
Mem. Geol. Surv. England & Wales. Memoirs of the Geological Survey of England and Wales. London.
Mem. Geol. Surv. India. Palæont. Indica. Memoirs of the Geological Survey of India. Palæontographica Indica. Calcutta.
Mem. Geol. Surv. Ireland. Memoirs of the Geological Survey of Ireland. Dublin.
Mem. Geol. Surv. N.S.W. Memoirs of the Geological Survey of New South Wales. Sydney.
Mem. Geol. Surv. N.Y. Memoirs of the Geological Survey of the State of New York. State Museum. University of the State of New York. Albany (N.Y.).
Mem. Geol. Surv. Scotland. Memoirs of the Geological Survey of Scotland. Edinburgh.
Mem. Geol. Surv. Transvaal. Memoirs of the Geological Survey of the Transvaal. Pretoria.
Mem. Geol. Surv. U.K. Memoirs of the Geological Survey of the United Kingdom. London, &c.
Mem. Geol. Surv. Victoria. Memoirs of the Geological Survey of Victoria. Melbourne.
Mem. Manch. Lit. Phil. Soc. Memoirs and Proceedings of the Manchester Literary and Philosophical Society. Manchester.
Mem. Mus. Comp. Zool. Memoirs of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
Mem. Mysore Geol. Dep. Memoirs of the Mysore Geological Department. Bangalore.
Mem. Nat. Mus., Melbourne. Memoirs of the National Museum. Melbourne.
Mem. N.Y. Acad. Sci. Memoirs of the New York Academy of Sciences. New York.
Mem. R. Acad. Cienc., Madrid. Memorias de la Real Academía de Ciencias exactas, físicas y naturales. Madrid.
Mem. R. Acc. Lincei. Memorie della Reale Accademia dei Lincei. Rome.
Mem. R. Acc. Sci. Torino. Memorie della Reale Accademia delle Scienze. Turin.
Mem. R. Ist. lomb. Memorie del Reale Istituto lombardo di Scienze e Lettere. Milan.
Mem. R. Soc. S. Austr. Memoirs of the Royal Society of South Australia. Adelaide.
Mem. Soc. cient. 'Ant. Alzate.' Memorias y Revista de la Sociedad científica 'Antonio Alzate.' Mexico.
Mém. Soc. géol. France (Paléont.). Mémoires de la Société géologique de France. Paléontologie. Paris.
Mém. Soc. Linn. Norm. Mémoires de la Société Linnéenne de Normandie. Caen.
Mém. Soc. Nat. Kiev. Mémoires de la Société des Naturalistes. Kiev.
Mém. Soc. paléont. suisse. Mémoires de la Société paléontologique suisse. Geneva, &c.
Mém. Soc. Phys. & Hist. nat. Genève. Mémoires de la Société de Physique et d'Histoire naturelle de Genève. Geneva.
Mém. Soc. R. malac. Belg. See *Ann. Soc. R. zool. & malac. Belg.*
Mém. Soc. Roy. Sci. Liége. Mémoires de la Société Royale des Sciences. Liége.
Mém. Soc. Spéléol., Paris. See *Spelunca.*
Min. Mag. The Mineralogical Magazine and Journal of the Mineralogical Society. London.
Min. petr. Mitth. Mineralogische und petrographische Mittheilungen. Vienna.
Mines & Minerals, Scranton. Mines and Minerals. Scranton (Pa.).
Mining Journ. Mining Journal. Railway and Commercial Gazette. London.
Minutes of Proc. Inst. C.E. Minutes of Proceedings of the Institution of Civil Engineers. London.
Missouri Bur. Geol. & Mines. Missouri Bureau of Geology and Mines. Jefferson City (Mo.).
Mitth. badisch. geol. Landesanst. Mittheilungen der grossherzoglich badischen geologischen Landesanstalt. Heidelberg.
Mitth. Erdbeben-Komm. k. Akad. Wissensch., Wien. Mittheilungen der Erdbeben-Kommission der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
Mitth. geol. Landesanst. Elsass-Lothr. Mittheilungen der geologischen Landesanstalt von Elsass-Lothringen. Strasburg.

Mitth. Jahrb. k.-ung. geol. Anst. Mittheilungen aus dem Jahrbuche der königlich-ungarischen geologischen Anstalt. Budapest.
Mitth. Min. Inst. Kiel. Mittheilungen aus dem Mineralogischen Institut der Universität. Kiel.
Mitth. naturf. Gesellsch. Bern. Mittheilungen der naturforschenden Gesellschaft. Berne.
Mitth. nat. Ver. Steiermark. Mittheilungen des naturwissenschaftlichen Vereines für Steiermark. Graz.
Mitth. Ver. Erdk. Dresden. Mittheilungen des Vereins für Erdkunde. Dresden.
Monogr. Palæont. Soc. Monographs of the Palæontographical Society. London.
Monogr. U.S. Geol. Surv. Monographs of the United States Geological Survey. Washington (D.C.).
Naturalist, Leeds. The Naturalist. Leeds & London.
Nature. Nature. London.
Nat. Verh. Holland. Maat. Wet. Haarlem. Natuurkundige Verhandelingen van de Hollandsche Maatschappij der Wetenschappen. Haarlem.
N. J. f. Min. Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Stuttgart.
N.S.W. Dep. Mines, Min. Resources. New South Wales Department of Mines. Mineral Resources. Sydney.
Norsk geol. Tidsskr. Norsk geologisk Tidsskrift, udgivet af Norsk geologisk Forening. Christiania.
Notice expl. Carte géol. Suisse. Notice explicative de la Carte géologique de la Suisse. Berne.
Notizbl. Ver. f. Erdk. Darmstadt. Notizblatt des Vereins für Erdkunde und der grossherzoglichen hessischen geologischen Landesanstalt. Darmstadt.
Nouv. Arch. Mus. Hist. nat. Paris. Nouvelles Archives du Muséum d'Histoire naturelle. Paris.
Nyt Magazin. Nyt Magazin for Naturvidenskaberne. Christiania.
Occ. Papers Boston Nat. Hist. Soc. Occasional Papers of the Boston Natural History Society. Boston.
Öfvers. K. Vet.-Akad. Förh. Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar. Stockholm.
Ottawa Nat. Ottawa Naturalist. Ottawa.
Overs. K. danske Vidensk.-Selsk. Forh. Oversigt over det Kongelige danske Videnskabernes-Selskabs Forhandlinger. Copenhagen.
Paläont. Abh. Jena. Paläontologische Abhandlungen. Jena.
Palæontographica. Palæontographica. Stuttgart.
Palæontographica italica. Palæontographica italica. Pisa.
Papers & Proc. Roy. Soc. Tasm. Papers and Proceedings of the Royal Society of Tasmania. Hobart.
Papers & Rep. Min. & Mining, N.Z. Papers and Reports relating to Minerals and Mining, N.Z. Wellington (N.Z.).
Parerg. Inst. geol. Mex. Parergones del Instituto geológico de México. Mexico.
Perak Gov. Gaz. Perak Government Gazette. Taiping.
Peterm. Mitth. Petermann's Mittheilungen. Gotha.
Phil. Trans. Roy. Soc. Philosophical Transactions of the Royal Society. London.
Photogr. Journ. Photographic Journal. (Royal Photographic Society.) London.
Princeton Univ. Rep. Princeton University. Reports of Expeditions. Princeton (N.J.).
Proc. Acad. Nat. Sci. Philad. Proceedings of the Academy of Natural Sciences. Philadelphia (Pa.).
Proc. Am. Acad. Arts & Sci. Proceedings of the American Academy of Arts and Sciences. Boston (Mass.).
Proc. Am. Phil. Soc. Proceedings of the American Philosophical Society. Philadelphia (Pa.).
Proc. Asiatic Soc. Bengal. Proceedings of the Asiatic Society of Bengal. Calcutta.
Proc. Austr. Inst. M. E. Proceedings of the Australasian Institute of Mining Engineers. Melbourne (Vict.).
Proc. Bath Nat. Hist. F. C. Proceedings of the Bath Natural History and Antiquarian Field-Club. Bath.
Proc. Belfast Nat. F. C. Proceedings of the Belfast Naturalists' Field-Club. Belfast.
Proc. Biol. Soc. Washington. Proceedings of the Biological Society of Washington. Washington (D.C.).
Proc. Boston Soc. Nat. Hist. Proceedings of the Boston Society of Natural History. Boston (Mass.).

Proc. Bristol Nat. Soc. Proceedings of the Bristol Naturalists' Society. Bristol.
Proc. Cambridge Phil. Soc. Proceedings of the Cambridge Philosophical Society. Cambridge.
Proc. Canad. Inst. Proceedings of the Canadian Institute. Toronto.
Proc. Chem. Soc. Proceedings of the Chemical Society. London.
Proc. Colo. Sci. Soc. Proceedings of the Colorado Scientific Society. Denver (Colo.).
Proc. Cotteswold Nat. F. C. Proceedings of the Cotteswold Naturalists' Field-Club. Gloucester.
Proc. Davenport Acad. Nat. Sci. Proceedings of the Davenport Academy of Natural Science. Davenport (Iowa).
Proc. Dorset Nat. Hist. F. C. Proceedings of the Dorset Natural History and Antiquarian Field-Club. Dorchester.
Proc. Geol. Assoc. Proceedings of the Geologists' Association. London.
Proc. Geol. Soc. S.A. Proceedings of the Geological Society of South Africa. Johannesburg.
Proc. Indiana Acad. Sci. Proceedings of the Indiana Academy of Sciences. Indianapolis.
Proc. Linn. Soc. Proceedings of the Linnean Society. London.
Proc. Linn. Soc. N.S.W. Proceedings of the Linnean Society of New South Wales. Sydney.
Proc. Lit. Phil. Soc. Liverp. Proceedings of the Literary and Philosophical Society of Liverpool. Liverpool.
Proc. Liverp. Geol. Soc. Proceedings of the Liverpool Geological Society. Liverpool.
Proc. Malacol. Soc. Proceedings of the Malacological Society. London.
Proc. Midland Inst. M. E. Proceedings of the Midland Institute of Mining, Civil, and Mechanical Engineers. Newcastle-upon-Tyne.
Proc. Rhodesia Sci. Assoc. Proceedings of the Rhodesia Scientific Association. Bulawayo.
Proc. Roy. Inst. Gt. B. Proceedings of the Royal Institution of Great Britain. London.
Proc. Roy. Irish Acad. Proceedings of the Royal Irish Academy. Dublin.
Proc. R. Phys. Soc. Edinb. Proceedings of the Royal Physical Society of Edinburgh. Edinburgh.
Proc. Roy. Soc. Proceedings of the Royal Society. London.
Proc. Roy. Soc. Edinb. Proceedings of the Royal Society of Edinburgh. Edinburgh.
Proc. Roy. Soc. Tasm. Proceedings of the Royal Society of Tasmania. Hobart. See *Papers & Proc.*
Proc. Roy. Soc. Victoria. Proceedings of the Royal Society of Victoria. Melbourne.
Proc. Soc. Bibl. Arch. Proceedings of the Society of Biblical Archæology. London.
Proc. S. Wales Inst. Engin. Proceedings of the South Wales Institute of Engineers. Cardiff.
Proc. U.S. Nat. Mus. Proceedings of the United States National Museum. Washington (D.C.).
Proc. Univ. Durham Phil. Soc. Proceedings of the University of Durham Philosophical Society. Newcastle-upon-Tyne.
Proc.-verb. Soc. R. malac. Belg. Procès-verbaux des Séances de la Société Royale malacologique de Belgique. Brussels.
Proc. Wash. Acad. Sci. Proceedings of the Washington Academy of Sciences. Washington (D.C.).
Proc. Yorks. Geol. Soc. Proceedings of the Yorkshire Geological Society. Halifax.
Proc. Zool. Soc. London. Proceedings of the Zoological Society. London.
Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc. Proceedings and Transactions of the Croydon Microscopical and Natural History Society. Croydon.
Proc. & Trans. N.S. Inst. Sci. Proceedings and Transactions of the Nova Scotia Institute of Science. Halifax (N.S.).
Proc. & Trans. Roy. Soc. Canada. Proceedings and Transactions of the Royal Society of Canada. Ottawa.
Prof. Papers, U.S. Geol. Surv. Professional Papers, United States Geological Survey. Washington.
Publ. Carnegie Mus. Publications of the Carnegie Museum. Pittsburg (Pa.).
Publ. Earthq. Comm. Tokyo. Publications of the Earthquake Investigations Committee in Foreign Languages. Tokyo.
Q. J. G. S. Quarterly Journal of the Geological Society. London.
Q. J. R. Met. Soc. Quarterly Journal of the Royal Meteorological Society. London.

Quarry. The Quarry. London.
Rec. Geol. Surv. India. Records of the Geological Survey of India. Calcutta.
Rec. Geol. Surv. N.S.W. Records of the Geological Survey of New South Wales. Sydney.
Rec. Geol. Surv. Victoria. Records of the Geological Survey of Victoria. Melbourne.
Rec. London & W. Country Chamber of Mines. Record of the London and West-Country Chamber of Mines. London.
Rec. Mysore Geol. Dep. Records of the Mysore Geological Department. Bangalore.
Rendic. e Mem. R. Acc. Sci. Acireale. Rendiconti e Memorie della Reale Accademia di Scienze, Lettere ed Arti. Acireale.
Rendic. R. Acc. Sci. Napoli. Rendiconti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
Rendic. R. Ist. lomb. Reale Istituto lombardo di Scienze e Lettere. Rendiconti. Milan.
Rep. Austral. Assoc. Adv. Sci. Report of the Australasian Association for the Advancement of Science. Sydney.
Rep. Brit. Assoc. Report of the British Association for the Advancement of Science. London.
Rep. Brit. S. Africa Co. Report of the British South Africa Company. London.
Rep. Bur. Mines, Canad. Report of the Bureau of Mines, Canada. Ottawa.
Rep. Croydon Microsc. Club. See *Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc.*
Rep. Dep. Mines N.S. Report of the Department of Mines, Nova Scotia. Halifax (N.S.).
Rep. Dep. Mines, Tasm. Report of the Secretary of the Department of Mines. Hobart.
Rep. Dep. Mines Transvaal. See *Transvaal Mines Dep.*
Rep. Dep. Mines, W. Austr. Report of the Department of Mines, Western Australia. Perth (W. Austr.).
Rep. Geol. Surv. Louisiana. Report of the Geological Survey of Louisiana. Bâton Rouge (La.).
Rep. Geol. Surv. Newfoundland. Report of the Geological Survey of Newfoundland. St. John's (N.F.).
Rep. Geol. Surv. Transvaal. See *Transvaal Mines Dep., Rep. Geol. Surv.*
Rep. Geol. Surv. U.K. & Mus. of Pract. Geol. Report of the Geological Survey of the United Kingdom and of the Museum of Practical Geology. London.
Rep. Inst. Mines & Forests Brit. Guiana. Report of the Council of the Institute of Mines and Forests on the Gold and Forest-Industries of British Guiana. Georgetown (Demerara).
Rep. Leicester Mus. Report of the Committee to the Town Council, Leicester Corporation Museum and Art Gallery. Leicester.
Rep. Mich. Acad. Sci. Report of the Michigan Academy of Science. Lansing (Mich.).
Rep. Rugby School Nat. Hist. Soc. Report of the Rugby School Natural History Society. Rugby.
Rep. S.A. Assoc. Adv. Sci. Report of the South African Association for the Advancement of Science. Cape Town.
Rep. S.E. Union Sci. Soc. See *Trans. S.E. Union Sci. Soc.*
Rep. Surv. Dep. Egypt. Report on the Work of the Survey Department. Cairo.
Rep. U.S. Dep. Agric. Report of the United States Department of Agriculture. Washington (D.C.).
Rep. Univ. Geol. Surv. Kansas. Reports of the University Geological Survey of Kansas. Topeka (Kan.).
Rep. & Proc. Belfast Nat. Hist. Soc. Report and Proceedings of the Belfast Natural History and Philosophical Society. Belfast.
Rep. & Trans. Devon. Assoc. Adv. Sci. See *Trans. Devon. Assoc.*
Rev. Cienc., Lima. Revista de Ciencias. Lima.
Rev. critique de Paléozool. Revue critique de Paléozoologie. Paris.
Rev. Inst. geogr. & hist. Bahia. Revista trimensal do Instituto geographico e historico da Bahia. Bahia.
Rev. Minas, Santiago. Revista de Minas. Santiago de Chile.
Rev. R. Acad. Cienc. Madrid. Revista de la Real Academía de Ciencias exactas, físicas y naturales. Madrid.
Rev. Sci. Paris. Revue Scientifique. Paris.
Rev. Soc. sci. São Paulo. Revista da Sociedade scientifica de São Paulo. São Paulo.

Rhodesia Mus. Rhodesia Museum. Bulawayo.
Riv. ital. Paleont., Perugia. Rivista italiana di Paleontologia, Perugia (*late* Bologna, Parma).
Riv. Min. e Crist. ital. Padova. Rivista di Mineralogia e Cristallografia italiana. Padua.
Rochester Nat. Rochester Naturalist. Rochester.
Rozpr. Akad. Umiej. Krakow. Rozprawy Wydzialu matematyczno-przyrodniczego Akademii Umiejetności. Cracow.
Samml. geol. R.-Mus. Leiden. Sammlungen des geologischen Reichs-Museums in Leiden. Leyden.
Schr. Gesellsch. Naturw. Marburg. Schriften der Gesellschaft zur Beförderung der gesammten Naturwissenschaften zu Marburg. Marburg.
Schr. Naturf.-Gesellsch. Univ. Dorpat. Schriften herausgegeben von der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.
Schr. physik.-ökonom. Gesellsch. Königsb. Schriften der physikalisch-ökonomischen Gesellschaft. Königsberg in Pr.
Sci. Bull. Mus. Brooklyn Inst. Arts & Sci. Science Bulletin of the Museum of the Brooklyn Institute of Arts and Sciences. Brooklyn (N.Y.).
Sci. Bull. Univ. Kansas. Science Bulletin of the University of Kansas. Lawrence (Kan.).
Sci. Proc. R. Dublin Soc. Scientific Proceedings of the Royal Dublin Society. Dublin.
Sci. Trans. R. Dublin Soc. Scientific Transactions of the Royal Dublin Society. Dublin.
Science. Science. New York.
Scot. Geogr. Mag. Scottish Geographical Magazine. (Royal Scottish Geographical Society.) Edinburgh.
Sitz. Gesellsch. naturf. Freunde, Berlin. Sitzungsberichte der Gesellschaft naturforschender Freunde. Berlin.
Sitz. k. Akad. Wissensch. Wien. Sitzungsberichte der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
Sitz. k.-bayr. Akad. Sitzungsberichte der mathematisch-physikalischen Classe der königlich-bayerischen Akademie der Wissenschaften. Munich.
Sitz. k.-preuss. Akad. Wissensch. Berlin. Sitzungsberichte der königlich-preussischen Akademie der Wissenschaften. Berlin.
Sitz. Naturf.-Gesellsch. Dorpat. Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.
Sitz. niederrhein. Gesellsch. Nat. &c., Bonn. Sitzungsberichte der niederrheinischen Gesellschaft für Natur- und Heilkunde zu Bonn. Bonn. See *Verh. naturh. Ver. preuss. Rheinl.*
Sitz. u. Abh. Gesellsch. 'Isis.' Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft 'Isis' in Dresden. Dresden.
Smiths. Miscell. Coll. Smithsonian Miscellaneous Collections. Washington (D.C.).
Soc. 'Ger. Guidoni,' Spezia. Società 'Gerolamo Guidoni' per la Diffusione e l'Incremento degli Studi naturali. Spezia.
Spelunca. 'Spelunca.' Bulletin et Mémoires de la Société de Spéléologie. Paris.
Summ. Progr. Geol. Surv. U.K. Summary of Progress of the Geological Survey of the United Kingdom. London.
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Sver. geol. Undersökn., Afh. Sveriges geologiska Undersökning, Afhandlingar. Stockholm.
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Alsódabas & Alsósajó. — *See* Dabas, Lower, & Sajó, Lower.
Alta (Utah).—Palmer, L. A.
Altai (Asia).—Ahnert, E. von.
Altoona (Pa.).—Butts, C.; Kindle, E. M., 2.
Alum, India.—Holland, T. H.
Alvácza (Transylvania). — Papps, K. von.
Alveolina.—Checchia-Rispoli, G.
Amaltheus.—Oppenheimer, J., 2.
Amber, Baltic.—Meunier, F.; Zang, R., 1 & 2.
——, India.—Holland, T. H., 2.
Amberleya.—Cossmann, M.
Amblyacrum.—Cossmann, M., 3.
Amblygonite, Kashmir.—Mallet, F. R.
Ambon I. (D.E.I.).—Verbeek, R. D. M.
America (Central), soils.—Sapper, K.
—— (North), Archæan & ore-deposits. —Heneage, E. F.
—— (S.), former connexion with Africa. —Schwarz, E. H. L., 5.
American geology, &c.—Merrill, G. P., 2; Weeks, F. B.; *see also* Permo-Carboniferous, *&c.*
Amethyst.—Spencer, G. F. H.
——, synthesis of.—Berthelot, A.
Amgun R. (Siberia).—Maier, E.
Amianthus.—*See* Chrysolite.
Ammonites, Cretaceous.—Baumberger, E.; Crick, G. C.; Jacob, C.; Kilian, W., 5; Kossmat, F., 4; Nœtling, F.; Pethœ, J.; Sintzov, J.; Stolley, E., 6 & 7.
——, Jurassic. — Buckman, S. S., 3; Bigot, A., 2; Kilian, W., 8; Lee, G. W.; Prinz, G., 2–4; Salfeld, H.; Schmidt, M.; Schrœder, H.; Stolley, E., 3.
——, Triassic.—Frech, F., 6.
Ammonites Parkinsoni-zone, N. Germany.—Schrœder, H.

Ammonoidea, Cretaceous.—Fucini, A., 2; Leriche, M., 6; Macovei, G.; Uhlig, V., 2.
——, Jurassic.—Cragin, F. W.; Gentil, L., 3; Oppenheimer, J., 2.
——, Triassic.—Diener, C., 6 & 7.
——. *See also* Phylloceratidæ, *&c.*
Ammosaurus.—Huene, F. von, 3.
Amphibia, Bohemian fossil.—Bayer, F.
——, Carboniferous.—Thévenin, A.
——, Triassic.—Spitz, W.
Amphibolite, Cevadaes.—Hlawatsch, C.
——, classification of.—Murgoci, G.M., 3.
——, Liguria.—Rosati, A., 1 & 2.
——, Perm Gov.—Lœwinson-Lessing, F., 4.
——, Piedmont.—Mattirolo, E.
——, Tian-Shan Mts.—Keidel, H., 2.
——, Vermont.—Marsters, V. F.
——, W. Australia.—Lindgren, W., 3.
Amphichelydia.—Hay, O. P., 2.
Amphiproviverra.—Sinclair, W. J.
Amphoton.—Lorenz, T., 2.
Amplexi-Zaphrentis.—Matley, C. A.
Ampullina.—Jukovski, E., 2.
Ampullospira.—Cossmann, M., 3.
Ampyx.—Reed, F. R. C., 4.
Analalava (Madagascar).—Colcanap, —; Lemoine, P., 2.
Analcime.—Pelikan, A.
Analcite-diabase, Gullane Hill.—Young, B. R.
Analyses, Hungarian rocks & soils.—Emszt, K., 2.
——, New Jersey crystalline limestone.—Kuemmel, H. B., 3.
——, Russian water.—Sintzov, I., 2.
Analysis, (method of) mineral.—Chesneau, G.
——, (——) soil.—Cayeux, L., 2.
——, (——) water.—Leighton, M. O.
Anaptomorphus.—Loomis, F. B.
Anatase, Binn Valley.—Harre, R. W.
Anatina.—Cossmann, M., 2; Cragin, F. W.; Pethœ, I.
Ancachs (Peru).—Adams, G. I., 3.
Anchilophus.—Stehlin, H. G., 2.
Anchisaurus.—Huene, F. von, 3; Thyng, F. W.
Ancilla.—Oppenheim, P.
Ancodon.—Andrews, C. W.
Ancyloceras.—Brown, H. Y. L.; Sintzov, I.; Wegner, T.
Andes (S. Am.).—Evans, J. W., 2; Hœk, H., 3.
Andesite, Ambon.—Verbeek, R. D. M.
——, Argentina.—Bodenbender, G.; Taunhaüser, F.
——, Caermarthenshire.—Cantrill, T. C., 2.
——, Corsica.—Deprat, J., 2.
——, Graham's Land.—Gourdon, E.
——, Mexico.—Guild, F. N.; Warwick, A. W.
——, Nevada.—Spurr, J. E., 2.
——, New Zealand.—Marshall, P., 3; Sollas, W. J., 3.
——, Queensland.—Jensen, H. I., 2.
Andesitic basalt, Argyllshire.—Hill, J. B., 2.
Andorre (Pyrenees).—Chevalier, M.
Andreïevski Mine (Urals).—Katterfeld, G. S.
Angara R. (Perm).—Lœwinson-Lessing, F., 4.
Anglesey (N. Wales).—Edwards, W.; Greenly, E.
Anguilla.—Eastman, C. R.
Anhalt (Germany).—Cornu, F., 2; Linstow, O. von.
Ankarsrum (Gothland).—*See* Sweden, Geol. Undersökn.
Annelid, Mount Torlesse.—Bather, F. A., 2.
Anomacare.—Lorenz, T., 2.
Anomalocaris.—Whiteaves, J. F., 3.
Anomia.—Sokolov, N.
Anomocarella.—Walcott, C. D., 3.
Anomomylacris.—Handlirsch, A., 3.
Antarctic Expedition, Belgian.—*See* 'Belgica.'
—— ——, German.—Drygalski, E. von, 2.
—— ——, Swedish.—Andersson, J. G., 1 & 3; Kilian, W., 5.
Antarctic Regions.—Benham, W. B.; Ferrar, H. T., 1 & 2; Gaudry, A.; Gourdon, E.; Milne, J.; Richthofen, Baron F. von; Wilckens, O.
Anthonya.—Woods, H.
Anthracite, Colorado.—Lakes, A.
——, formation of.—Campbell, M. R.
——, Savoy.—Badoureau, —.
——, Virginia.—Tiffany, J. E.
Anthracoblattina.—Agnus, A. N.
Anthracolithic fauna, Assam.—Diener, C.
Anthracomartus.—Baldwin, W.
Anthracomya.—Watson, D. M. S.
Antimony, Alsace.—Ungemach, —.
——, Nova Scotia.—Gilpin, E., Jun.
——, Shan States (Northern).—Fermor, L. L., 5.
——. *See also* United States, Min. Resources.
Antinomia.—Buckman, S. S.
Antola, Mte. (Liguria).—Issel, A., 2.
Antrim, Co. (Ireland).—Strachan, J.
Antropornis.—Abel, O., 3.
Antwerp docks (Belgium).—Simoens, G., 4; Van Bogaert, C.
Aosta Valley (Piedmont).—Millosevich, F.
Apennines (Italy).—Casselli, M.; Fucini, A.; Parona, C. F.; Prever, P. L.; Sacco, F., 6; Toldo, G.; Vinassa de Regny, P., 2.
Apex, law of the.—Purington, C. W., 3.
Aphelomylacris & Aphthoblattina.—Handlirsch, A., 3.
Aplite, New Hampshire.—Pirsson, L. V., 2.
Aplosmilia.—Angelis d'Ossat, G. de.
Apophyllite.—Cornu, F., 3; Flink, G.; Manasse, E., 3.
Aporrhais.—Replin, J.

Appalachian folds, America (N.). — Keith, A.
Apterodon.—Andrews, C. W.
Aptian, Dauphiné.—Jacob, C.
——, Gard.—Pellat, E., 1 & 2.
——, Paris Basin.—Peron, A., 2.
——. *See also* Cretaceous.
Aptycholathyrus.—Cossmann, M., 3.
Apuan Alps (Tuscany).—Aloisi, P.
Apulia (Italy).—Stefano, G. di.
Apyllostylus.—Whiteaves, J. F.
Arad Megye (Transylvania).—Papp, K. von, 2.
Aragon (Spain).—Depéret, C., 4.
Aragonite.—Nicolau, T., 3.
Aragotite.—Hanks, H. G.
Aralo-Caspian deposits, Lr. Volga. — Palibin, I. V.
Araucaria.—Seward, A. C., 2.
Arawak Matope (British Guiana).—Harrison, J. B., 2.
Arbe, I. of (Dalmatia).—Waagen, L.
Arca.—Borisyak, A., 3; Cragin, F. W.; Newton, R. B.; Pethœ, J.; Sokolov, N.
Arcestes.—Hyatt, A.
Archadinsk District (S.E. Russia).—Pavlov, A. V., 2.
Archæan, Africa (S.), & America (N.).—Heneage, E. F.
——, Canada.—Miller, W. G., 1–3.
——, earth's crust &.—Jourdy, E., 2.
——, Finland.—Jakovlev, S. A.
——, Rhodesia.—Mennell, F. P., 2.
Archæocidaris.—Vinassa de Regny, P., 6.
Archæolemur.—Grandidier, G.
Archæolepas.—Harbort, E.
Archæologus.—Handlirsch, A., 3.
Archæophis.—Janensch, W.
Archæopteryx.—Kemna, A.
Archangel Gov. (Russia).—Ivanov, A. P.; Ramsay, W., 2 & 5.
Archimastax.—Handlirsch, A., 3.
Archinacella.—Reed, F. R. C., 3.
Arcidæ, Jurassic.—Borisyak, A., 3.
Arcopagia.—Cossmann, M., 3.
Arctic expedition, Swedish.—Hamberg, A., 4.
—— Regions.—Belowski, M.; Borg, W.
—— Russia.—Ramsay, W., 2 & 5.
Ardèche (France).—Haug, É., 4; Mazauric, F., 2; Raymond, P.
Ardennes.—Cayeux, L., 3 & 6; Gosselet, J., 9; Prinz, W.
Ardisson, Grotte d' (Alpes-Maritimes).—Goby, P.
Ardmuchnish (Argyll).—Bailey, E. B.
Ardrishaig Group, Argyll.—Hill, J. B., 2.
Arenig, Caermarthen.—Evans, D. C.
Areuse R. (Neuchâtel).—Schardt, H.
Argentario, Cape (Tuscany).—Lotti, B.
Argentiferous lead, Savoy.—Badoureau, —.
Argentina (S. Am.).—Bodenbender, G.; Bravard, A.; Hauthal, R.; Sourdeaux, A.; Taunhaüser, F.
Argillœcia.—Cappelli, G. B.
Argolis (Greece).—Renz, C., 4.
Argon, mineral waters with.—Moureu, C.
Argyll (Scotland).—Bailey, E. B.; Hill, J. B., 2; Peach, B. N., 2.
Ariège (France).—Azéma, —; Bertrand, L.; Pâquier, V.
Arizona (U.S.A.).—Atwood, W. W.; Barringer, D. M.; Blake, W. P.; Campbell, M. R., 2; Crosby, W. O.; Farrington, O. C.; Fletcher, L.; Lee, W. T.; Lindgren, W., 4; Mallet, J.; Merrill, F. J. H., 2; Reid, J. A.; Tilghman, B. C.; Ward, L. F.
Arkansas (U.S.A.).—Schuchert, C.
Arkansas Valley (Kan.).—Slichter, C. S., 2.
Arkona beaches (Mich.).—Taylor, F. B., 1 & 2.
Armenia (Asia Minor).—Oswald, T.
Arnioceras.—Fucini, A., 4.
Arona-Santhia Ry. (Piedmont).—Sacco, F., 2.
Arosa (Grisons).—Hœk, H.
Arpadites.—Hyatt, A.
Arsenides, Ontario.—Campbell, W., 3.
Arsinoitherium.—Andrews, C. W.
Artesian water, Auxonne.—Collot, L.
—— ——, Argentina.—Sourdeaux, A.
—— ——, Brussels.—Forir, H., 2.
—— ——, Baden.—Steinmann, G., 4.
—— ——, Karroo District.—Young, A.
—— ——, Lincoln.—Hull, E.
—— ——, Lombardy.—Toldo, G., 3.
—— ——, Montreal I.—Adams, F. D., 4.
—— ——, Nyitra Com. (Hungary). — Horusitzky, H.
—— ——, Queensland.—Henderson, J. B.
Arthrodira, Devonian.—Eastman, C. R., 2; Hussakof, L., 1 & 2.
Arthropoda, Carboniferous. — Handlirsch, A.
Artiodactyl, Tertiary.—Barbour, E. H.
Artois (France).—Briet, L.; Gosselet, J., 4.
Arves Valley (Savoy).—Révil, J., 3.
Asabe (Nigeria).—Parkinson, J.
Asaphus.—Lamanski, V. V.; Lorenz, T., 2; Reed, F. R. C., 4.
Asbestiform serpentine, veins in. — Merrill, G. P.
Asbestos, India.—Holland, T. H., 2; Sambasiva-Iyer, V. S.
——, Vermont.—Marsters, V. F.
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Asemoblatta.—Handlirsch, A., 3.
Ashes, Vesuvius.—Johnsen, A.; Lacroix, A., 4; Llord y Gamboa, R.; Ohnesorge, T.; Quensel, P. D.
Ashtead (Surrey).—Young, G. W.
Asia Minor.—Bukowski, G. von; Freise, F.; Oswald, T.; Plieninger, F.; Schmeisser, C., 2.
Aspenites.—Hyatt, A.
Asphalt, East Indies. — Dueñas, E. I.; John, C. von, 2; Kossmat, F., 4.

Asphalt, Rhein-Hessen.—Steuer, A.
——. *See also* UNITED STATES, Min. Resources.
—— veins, formation of.—Eldridge, G. H.
Asphaltic coal, Indian Terr.—Crane, W. R.
Aspidites.—Hyatt, A.
Aspidoceras.—Cragin, F. W.
Asplenium.—Krasser, F., 2.
Assam (India).—Diener, C.
Assiniboia (Canada).—Bell, R., 3; Dowling, D. B., 2; Lambe, L. M., 2 & 3.
Astacus.—Harbort, E.
Astarte.—Cossmann, M.; Cragin, F. W.; Newton, R. B.; Pethœ, J.; Vinassa de Regny, P., 6; Wollemann, A., 3; Woods, H.
Asti (Piedmont).—Sacco, F., 9.
Astræopora.—Felix, J.
Astralium.—Pethœ, J.
Astrapotherium.—Tournouër, A.
Astrocœnia.—Cragin, F. W.; Felix, J.; Koby, F.
Astrocystites.—Whiteaves, J. F., 3.
Atacama (Chile).—Stutzer, O.
Atactoblatta.—Handlirsch, A., 3.
Atherfield (I. of Wight).—Hooley, R. W.
Atholl (Perthshire).—Coates, H.
Athyris.—Lorenz, T., 2; Vaughan, A.
Atimoblatta.—Handlirsch, A., 3.
Atlas Mts. (N. Africa).—Brives, A., 2; Gentil, L., 2; Van de Weile, C., 1 & 3.
Atmosphere, chemical and geological history of the.—Stevenson, J.
Atractites.—Hyatt, A.
Auriferous conglomerates, Rhodesia.—Gregory, J. W., 5–7; *see also* Banket, Gold, *&c.*
—— gravels, Peru.—Pfluecker, L.
Aurillac (Cantal).—Verworn, M.
Australasia.—David, T. W. E., 1–4.
——, earthquakes.—Baracchi, P.
Australia, economic geography of.—Gregory, J. W., 2.
——, glaciation of.—David, T. W. A., 2.
——, water-supply of Central.—Basedow, H.
—— (S.).—*See* South Australia, *&c.*
—— (W.).—*See* Western Australia.
Australian and Northern Hemisphere formations, correlation of.—Hall, T. S.
Austria.—*See also* Tyrol, Vienna Basin, *&c.*
—— (Upper).—Abel, O., 2.
Auteuil (Paris Basin).—Combes, P. (*fil.*).
Authie R. (Picardy).—Briquet, A., 5.
Autun (Burgundy).—Aron, A.
Auvergne (France).—Glangeaud, P., 1–4; Lacroix, A., 4; *see also* Puy-de-Dôme, *&c.*
Auxonne (Burgandy).—Collot, L.
Avala (Servia).—Fischer, H.
Avellino (Naples).—Baratta, M.; Parona, C. F.
Avesnes (Nord).—Carpentier, A, 1 & 4; Leriche, M., 1 & 2.
Aveyron (France).—Marty, P.
Avich, Loch (Argyll).—Hill, J. B., 2.
Avicula.—Fucini, A.; Gortani, M., 5; Harbort, E.
Aviculopecten.—Etheridge, R. (*fil.*); Gortani, M., 5; Hind, W., 2; Scupin, H.; Vinassa de Regny, P., 6.
Avigliana (Piedmont).—Piolti, G.
Avon Gorge.—Vaughan, A.
Avonian, Co. Dublin.—Matley, C. A.
—— (Somerset).—Sibly, T. F.
Awa, Loch (Argyll).—Hill, J. B., 2.
Axes, crystalline.—Evans, J. W., 1 & 5.
Axiologus.—Handlirsch, A., 3.
Axminster (Devon).—Richardson, L., 7.
Axosmilia.—Angelis d'Ossat, G. de.
Ayers Range (N. Terr., S. Australia).—Basedow, H., 2.
Ayot Green (Herts).—Monckton, H. W., 2.
Ayrshire (Scotland).—Reed, F. R. C., 4.
Azdjer (Sudan).—Foureau, F.
Aznalcollar (Sevilla).—Preiswerk, H., 2.
Azuero (Panama).—Jukovski, E.
Azurite.—Achiardi, G. d'.

Babadag (Rumania).—Macovei, G.
Baddow, Gt. & Little (Essex).—Salter, A. E., 2.
Bacchus Marsh (Victoria).—Chapman, F., 4.
Bacteriology, geology of underground water &.—Jæger, H.
Baden (Germany).—Becker, E., 1 & 2; Beierle, K.; Freudenberg, W.; Greppin, E.; Haid, M.; Huber, A.; Muehlberg, F.; Neumann, R.; Paulcke, W.; Rosenbusch, H.; Sauer, A.; Schalch, F.; Schmidt, M., 2; Spitz, W.; Steinmann, G., 2 & 4; Walther, J.; *see also* Maps, Baden.
Baëna.—Hay, O. P., 2; Lambe, L. M.
Bagnoles (Normandy).—Launay, L. de.
Bagolino (Lombardy).—Mariani, E., 2.
Bahia (Brazil).—Bonnet, C., 2; Derby, O. A.; Hussak, E.
Baiera.—Krasser, F., 2.
Bairdia.—Cappelli, G. B.; Ulrich, E. O.
Baksan (Caucasus).—Pjatnizki, P.
Bala-Caradoc, Caermarthen.—Evans, D. C.
Balatonites.—Hyatt, A.
Balearic Is.—Hœrnes, R., 2.
Balkan Peninsula.—Cvijić, J.; Oppenheim, P., 2; Toula, F.
Balkar Mts. (Caucasus).—Lœwinson-Lessing, F., 3.
Ball & band structures, Magnesian Limestone.—Abbott, G.
Ballarat (Victoria).—Gregory, J. W., 8.
Ballinluig (Perthshire).—Coates, H.
Balmaha (Perth).—Du Toit, A. L.
Balme, Grotte de la (Isère).—Martel, E. A., 2.
Baltic amber.—Meunier, F.; Zang, R., 1 & 2.
—— Provinces (Russia).—Lamanski, V. V.
Baltistan (Himalayas).—Workman, F. B.

Baluchistan (India).—Diener, C., 4.
Bambanag Cliff (Himalayas).—Diener, C., 3.
Banket, Rhodesia.—Gregory, J. W., 5–7; *see also* Gold, *&c.*
Baoussé-Roussé Cave (Mentone).—Boule, M.; Carziot, E.
Bara Bay (Buru I.).—John, C. von, 2.
Barberton (Transvaal).—Kynaston, H., 8.
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Barisal guns.—Ržehák, A., 3.
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Barkerville (B.C.).—Atkin, A. J. B.
Barrandeoceras.—Whiteaves, J. F., 2.
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——, Nitrate of.—*See* Nitrobarite.
Barysilite.—Sjœgren, H., 2.
Basalt, Antarctic.—Andersson, J. G.; Drygalski, E. von, 2; Gourdon, E.
——, Argyll.—Bailey, E. B.; Hill, J. B., 2.
——, Aveyron.—Marty, P.
——, Baden.—Becker, E., 1 & 2.
——, Batoka Gorge.—Lamplugh, G. W., 2.
——, Bavaria.—Kœhne, W., 2.
——, Cape Verd.—Chautard, J., 2.
——, Eigg (Sgùrr of).—Harker, A., 3.
——, Erythræa.—Manasse, E., 3.
——, Gough I.—Campbell, R.
——, Greenland.—Belowski, M.
——, Hesse.—Lang, O.
——, Iceland.—Pjetursson, H.
——, Madagascar.—Colcanap, —, 2.
——, Mediterranean (Western).—Washington, H. S.
——, Mexico.—Guild, F. N.
——, Nevada.—Spurr, J. E., 2.
——, New Hebrides.—Mawson, D.
——, New Zealand.—Marshall, P., 3; Sollas, W. J., 3.
——, Queensland.—Jensen, H. I., 2.
Basel (Switzerland).—Benecke, E. W., 3; Greppin, E.; Gutzwiller, A.; Leuthardt, F.
Basilemys.—Riggs, E. S.
Basque Provinces.—Launay, L. de; Oppenheim, P., 3.
Basses-Pyrénées (France).—Carez, L.
Basutoland (S.A.).—Dornan, S. S.
Batan I. (Philippines).—Wigmore, H. L.
Batangas Prov. (Philippines).—Smith, W. D., 2.
Batavia (D.E.I.).—Rudolph, E., 2.
Bath (Somerset).—Thompson, W., 2.
—— Museum, Triassic fossils.—Lomas, J.
Bath Furnace (Ky.).—Ward, H. A., 2.
Bathgate (Linlithgow).—Falconer, J. D.
Batholite, Cascade Mts.—Daly, R. A., 2.
Bathonian, Alpes-Maritimes.—Cossmann, M.; Kilian, W., 8.
——, Indre.—Garde, G.; Launay, H. de.
Bathytaptus.—Handlirsch, A., 3.
Bathyuriscus.—Lorenz, T., 2; Pack, F. J.
Batoka Gorge (Zambezi R.).—Lamplugh, G. W., 2.
Battle (Sussex).—Whitaker, W.
Baudour (Hainault).—Cornet, J., 6.
Bauges, Les (Savoy).—Deslarmes, J.
Baume-les-Messieurs, Grotte de (French Jura).—Renauld, E.; Viré, A.
Bavai (Nord).—Landrière, J., 2.
Bavaria.—Bergt, W.; Bleeck, W. G.; Kœhne, W., 1 & 2; Luczizky, W.; Maas, O.; Neumeister, P.; Reindl, J.; Sauer, A.; Schmidt, A.; Stuchlik, H.; Walther, J.; Wanderer, K.; *see also* Rhenish Bavaria *&* Swabia.
Bavarian Exhibition, Nürnberg, 1906.—Friz, O.
Baviaan's Kloof (Cape Colony).—Schwarz, E. H. L., 2.
Beaches.—*See* Raised beaches.
Bears, Quaternary.—Reynolds, S. H., 2.
Beauce, La (Paris Basin).—Dollfus, G. F., 3.
Beauly Basin (Inverness).—Murray, Sir J., 3; Peach, B. N., 4.
Beaver, fossil.—Collot, L., 2.
Bechuanaland (S.A.).—Du Toit, A., 3.
Becraft Mt. (N.Y.).—Clarke, J. M., 5.
Bedous (Basses Pyrénées).—Carez, L.
Beecher, C. E., *Obit.*—*See* Schuchert, C.
Bega (Transylvania).—Kadič, O.
Beggar Hill (Essex).—Salter, A. E.
Bela.—Cossmann, M., 3.
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—— *ultimus*-beds, Schleswig-Holstein.—Gagel, C., 7.
Bélesta (Ariège).—Pâquier, V.
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—— black granite.—Anon., 33.
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——, Pleistocene.—Lorié, J., 3.
——, seismological stations in.—Lagrange, E.
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Belinurus.—Baldwin, W., 2.
Belknap Mts. (New Hampshire).—Pirsson, L. V., 2.
Bellary District (S. India).—Maclaren, J. M., 3.
Bellegarde Valley (Savoy).—Douxami, H., 4.

Bellerophon.—Clarke, J. M., 7; Frech, F.; Gortani, M., 5; Reed, F. R. C., 3.
—— -beds, Italy.—Caneva, G.; Gortani, M., 5.
Belluno (Venetia).—Piaz, G. dal; Toniolo, R. A., 1 & 2.
Belosepiella.—Alessandri, G. de.
Belvidere Mt. (Vt.).—Marsters, V. F.
Ben Nevis (Scotland).—Gatty, V. H.
Bendigo (Victoria).—Lindgren, W., 2.
Bendock (Vict.).—Mingaye, J. C. H.
Benevento (Campania).—Baratta, M.
Bengal Pres. (India).—Fermor, L. L., 5; Molony, E.; Vredenburg, E., 2 & 3.
Beni R. (Brazil).—Evans, J. W., 2.
Bennettites.—Lignier, O.
Bentley (Suffolk).—Ridley, E. P.
Benton Co. (Iowa).—Savage, T. E.
Berane (Bosnia).—Martelli, A., 2.
Berbice R. (British Guiana).—Harrison, J. B., 4.
Bereg (Hungary).—Posewitz, T., 2.
Berendt amber-collection.—Zang, R., 2.
Berenicea.—Cragin, F. W.
Berkshire.—Kennard, A. S.; Monckton, H. W.; Shrubsole, O. A.; White, H. J. O., 1 & 3.
Berlin (Germany).—Linstow, O. von, 2; Menzel, H., 2.
—— University collection of meteorites.—Klein, C.
Berne (Switzerland).—Antenen, F.; Baumberger, E.; Martin, Rud.; Trœsch, A.
Bernese Oberland.—Baltzer, A., 2.
Berriasian.—*See* Purbeckian.
Bertrand's (M.) theory.—Jaccard, F.
Beryl.—Ford, W. E.
Bessarabia (Russia).—Andrussov, N.
Bethany (N.Y.).—Slocom, A. W.
Betlér (Hungary).—Reguly, E., 1 & 2.
Beucha (Saxony).—Hess von Wichdorff, H.
Beugnies (Nord).—Carpentier, A.
Beyrichia & Beyrichiella.—Ulrich, E. O.
Bhután (India).—Pilgrim, G. E., 3 & 4.
Biagi, G., *Obit*.—*See* Neviani, A.
Biarritz (Basses-Pyrénées).—Liebus, A.; Oppenheim, P., 3; Prever, P. L., 2.
Biban Mts. (Algeria).—Savornin, J., 1 & 2.
Bidi (Sarawak).—Scrutton, T. C.
Bien, J., *Obit*.—*See* Anon., 2.
Bighorn Mts. (Wy.).—Mansfield, G. R.
Bihar (Transylvania).—Papp, K. von, 2; Szadeczky, J. von; Szontagh, T. von.
—— Mts. (Transylvania).—Rozlozsnik, P.
Billingen Mt. (Gothland).—Munthe, H.
Biloculina.—Bullen, R. A.
Bingham (Utah).—Boutwell, J. M.
Binn Valley (Valais).—Harre, R. W.; Solly, R. H.
Biology, geological time &.—Lobley, J. L.
——, palæontology &.—Woodward, A. S., 2.
Biot (Alpes-Maritimes).—Depéret, C., 2.
Biotite-gneiss, algæ in.—Ahnert, E. von.
Birch Creek (Alaska).—Prindle, L. M.
Birds, fossil.—Abel, O., 3; Ameghino, F.; Bayer, F.; Hutton, F. W., 3; Loomis, F. B., 2; Stirling, E. C.; Ussher, R. J.
Birdsville Limestone, Kentucky.—Ulrich, E. O., 2.
Birikulski mine (Mariïnsk).—Korotkov, —.
Bischofite.—Muegge, O., 3.
Bismarck Archipelago (Pacific).—Schmeisser, C.
Bismuth, Colorado.—Schwarz, T. E.
——, New South Wales.—Andrews, E. C.
Bituminous deposits, eruptive rocks &.—Lakes, A.
—— schists, France.—Aron, A.
Black coating on rocks.—Evans, J. W., 2.
Black Forest (Germany).—Huber, A.; Neumann, R.; Rosenbusch, H.; Sauer, A., 1 & 2; Schmidt, M., 2.
Black Hills (Dak.).—Mansfield, G. R.
Black-Reef Series, Kromdraai.—Hall, A. L., 4.
Blackwood (Vict.).—Ferguson, W. H.
Blairmore (Alberta).—Bell, R., 3.
Blake, J. F., *Obit*.—*See* Anon., 3.
Blanford, W. T., *Obit*.—*See* Alcock, A. W.; Holland, T. H.; Marr, J. E.
Blastoidea, Carboniferous.—Taylor, T. G.; Ulrich, E. O., 2.
——, Silurian.—Whiteaves, J. F., 3.
Blaton (Hainault).—Cornet, J.
Blattidæ, Cretaceous.—Handlirsch, A., 2.
—— & Blattoidæ, Palæozoic.—Handlirsch, A., 3.
Blea Wyke (Yorks).—Herries, R. S., 1 & 3.
Blende, Sardinia.—Rimatori, C.
Blocks, erratic, Himalayas.—Griesbach, C. L.; *see also* Erratic.
Blue-John Mine (Derby).—Barnes, J.
Blue Nile (Abyssinia).—Blundell, H. W.
Blue veins of glaciers.—Reid, H. F.
Blümlis Alp (Bern).—Trœsch, A.
Bodenwöhr R. (Bavaria).—Wanderer, K.
Boekal River, Bwool (Celebes).—Koperberg, M.
Bog-ores, origin of.—Vogt, J. H. L., 2.
'Boghead,' France.—Aron, A.
Bognor (Sussex).—Reid, C.
Bogs, origin of.—Post, L. von.
——, Scotland.—Geikie, J.; Lewis, F. J., 1 & 2.
——. *See also* Peat.
Bohemia.—Bergt, W., 1 & 2; Cornu, F., 6; Grænzer, J.; Jahn, J. J., 2; Pabst, W.; Petrascheck, W., 2; Seemann, F.; Suess, F. E., 2; Želízko, J. V.
Böhlet (Sweden).—Sjœgren, H., 5.
Bohuslän (Gothland).—Munthe, H.
Bokkeveld Beds, South Africa.—Reed, F. R. C., 2; Schwarz, E. H. L., 8.

Bolca Mte. (Venetia).—Eastman, C. R.; Janensch, W.
Bolderian.—Dewalque, G. J. G., 2.
Boleite.—Friedel, G.
Bolivia (S. Am.).—Hœk, H., 3; Lake, P.; Steinmann, G.; Wood, E. M. R., 2.
Bolsena, Lago di (Central Italy).—Orzi, D.; Sabatini, V.
Bombs, volcanic.—Bassani, F., 1 & 2.
Bon-Vouloir (Hainault).—Munck, E. de.
Bonn (Rh. Pruss.).—Pohlig, H.
Bonpland, A. J. A.—*See* Hamy, E. T., 2.
Borax, Chile.—Herrmann, A.
——, India.—Holland, T. H., 2.
——, origin of.—Van't Hoff, J. H., 4.
——. *See also* United States, Min. Resources.
Borgie R. (Scotland).—Murray, Sir J., 2.
Borhyæna.—Sinclair, W. J.
Borings, Aargau.—Muehlberg, F., 2.
——, Alsace.—Fœrster, B.
——, Ardennes.—Gosselet, J., 9.
——, Argentina.—Sourdeaux, A.
——, Artois.—Gosselet, J., 4.
——, Auxonne.—Collot, L.
——, Baden.—Steinmann, G., 4.
——, Brunswick.—Harbort, E., 2; Stolley, E., 4.
——, Brussels.—Forir, H., 2.
——, Callao.—Sutton, C. W.
——, Campine.—Lohest, M., 4.
——, Gloucestershire.—Richardson, L., 5.
——, Great Baddow.—Salter, A. E., 2.
——, Hainault.—Cornet, J., 2.
——, Hesse.—Schottler, W.
——, Humber Valley (Newfoundland).—Howley, J. P.
——, Ingatestone.—Salter, A. E.
——, Kent.—Burr, M.
——, Lincolnshire.—Anon., 38; Hull, E.
——, Lorraine.—Cavallier, C.
——, New South Wales. *See* New South Wales, Depart. Mines.
——, Nord.—Carpentier, A., 2; Gosselet, J., 1 & 2; Pagnier, —; Videlaine, —.
——, Nyitra Com. (Hungary).—Horusitzky, H.
——, Orissa District (India).—Bose, P. N., 2.
——, Philippine Is.—Wigmore, H. L.
——, Picardy.—Dollfus, G. F.; Gosselet, J., 4, 8–10; Hermary, J., 2.
——, Russia.—Sintzov, I., 2.
——, Senne Valley.—Halet, F.
——, Suffolk.—Whitaker, W., 2.
——, United States.—Darton, N. H., 3.
——, Yorkshire.—Strangways, C. F.
——. *See also* Water, Wells, *&c.*
Bormida, La (Cottian Alps).—Franchi, S., 3.
Borneo (E.I.).—Dieseldorf, A.; Douvillé, H., 3; Geikie, J. S.; Hamilton, W.; Icke, H.; Scrutton, T. C.
Borolanite, Sutherland.—Shand, J.
Borough Green (Kent).—Bennett, F. J., 5.
Borrowdale (Lake District).—Marr, J. E., 2.
Borstal Heath (Kent).—Leach, A. L.
Bort, Brazil.—Derby, O. A.
Boryslaw (Galicia). — Angermann, E.; Holobek, J.
Bos, Magdeburg.—Mertens, —.
Bosnia.—Katzer, F., 1 & 3; Martelli, A., 2; Mauritz, B.
Boston (Mass.).—Mansfield, G. R., 2.
Bothriolepis.—Traquair, R. H., 2.
Bothrodendron.—Schwarz, E. H. L., 8.
Botryocrinus.—Bather, F. A., 3.
Boulder, Low Spen 'wash-out.'—Lebour, G. A.
Boulder, pyrites in Molteno quartzite.—Schwarz, E. H. L., 7.
Boulder City (Colo.).—Fenneman, N. M., 2.
Boulder-Clay & Chalk, Royston.—Bonney, T. G.
Boulders, Yorkshire.—Sheppard, T., 4.
Boultham (Lincoln).—Anon., 38.
Boulzicourt (Ardennes).—Gosselet, J., 9.
Bourges (Cher).—Dollfus, G. F., 4.
Bourne Valley (Dauphiné).—Decombaz, O., 2.
Bournemouth (Hants).—Cripps, F. S.
Bournonite.—Millosevich, F., 2.
Boxford (Berks).—White, H. J. O., 1 & 3.
Bozel (Savoy).—Carez, L., 2.
Brabant (Belgium).—Velge, G.
Brachiopoda, Cambrian.—Etheridge, R. (*fil.*); Pack, F. J.; Walcott, C. D., 2.
——, Carboniferous. — Foureau, F.; Frech, F., 7; Hind, W.; Keidel, H.; Matley, C. A.; Vaughan, A.; Vinassa de Regny, P., 6.
——, Cretaceous.—Ascher, E.; Krumbeck, L.
——, development of.—Buckman, S. S.
——, Devonian.—Breger, C. L.; Clarke, J. M., 5; Kindle, E. M.; Newton, E. T.; Reed, F. R. C., 2; Schmidt, W. E.; Schwarz, E. H. L., 8; Scupin, H.
——, Jurassic.—Buckman, S. S., 1, 2, & 4; Gentil, L., 3; Martelli, A., 3; Schmidt, M.
——, nomenclature of fossil.—Buckman, S. S., 4.
——, Permian.—Koken, E., 3.
——, Permo-Triassic.—Gortani, M., 4.
——, Silurian.—Clarke, J. M., 7; Foureau, F.; Lamanski, V. V.; Whiteaves, J. F.
——, systematic species-determination of fossil.—Dacqué, E.
——, Tertiary.—Cossmann, M., 3; Fuchs, T.
Brachylepas.—Bœhm, J.; Woodward, H., 6.
Brachymylacris.—Handlirsch, A., 3.
Brachyphyllum.—Krasser, F., 2.
Brachyprion.—Clarke, J. M., 5.
Brachytrema.—Schmidt, M.
Bradylemur.—Grandidier, G.
Braemar (Aberdeenshire).—Craig, E. H C.
Braintree (Essex).—Reader, F. W.

Braisfield (Hants).—Jukes-Browne, A. J.
Bramerton (Norfolk).—Hinton, M. A. C.
Brandenburg (Prussia).—Gagel, C., 2; Linstow, O. von, 2; Solger, F., 2; Schrœder, H., 4.
Brandon (Vt.).—Perkins, G. H.
Brandonia.—Perkins, G. H.
Brattleboro (Vt.).—Fisher, E. F.
Braunsrode (W. Prussia).—Jentzsch, A., 5.
Bray, Pays de (France).—Dubus, A.
Brazil (S. Am.).—Bonnet, E., 2; Branner, J. C.; Clarke, J. M., 4; Derby, O. A., 1 & 2; Evans, J. W., 2; Hussak, E., 1, 2, & 4–7; Katzer, F., 4; Osborn, H. F., 3; Pearson, H.; Westergård, A. H., 2.
Brea, La (Trinidad).—Craig, E. H. C., 5.
Breccias, Alpes-Maritimes.—Guébhard, A., 5.
——, Devonshire Permian.—Hobson, B.
——, Glen Lui igneous.—Craig, E. H. C.
——, Ormonts crystalline.—Renevier, E.
——, Tyrol interglacial.—Hammer, W., 2.
Bregenz (Tyrol).—Blaas, J.
Breggia Valley (Lombardy).—Heim, A., 3.
Brenner Pass (Tyrol).—Termier, P., 2.
Breslau (Silesia).—Kemna, A., 4.
Breunnerite.—Piolti, G.
Breusch Valley (Vosges).—Mueller, F. T.
Brewster Co. (Texas).—Phillips, W. B.
Bribir (Dalmatia).—Dainelli, G.
Bridge, Gokteik Gorge natural.—La Touche, T. D., 2.
Bridger Beds, Wyoming.—Hay, O. P.
Brill (Bucks).—Davies, A. M.
Brissoides.—Lambert, J., 2.
Bristol.—Hind, W., 4; Vaughan, A.
—— Museum & Art Gallery, 1772–1906. —Barker, W. R.
Britanny (France).—Barrois, C., 4; Cayeux, L., 4; Pussenot, —.
British Association, South Africa.—Darwin, G. H.
—— ——, York, 1906.—Anon., 30; Lamplugh, G. W., 3; Lankester, E. R.
British Central Africa.—Evans, J. W., 6.
British coal-resources.—Rowley, W.
British Columbia (Canada).—Atkin, A. J. B.; Bell, R., 2 & 3; Daly, R. A., 1 & 2; Whiteaves, J. F., 3; *see also* British Columbia, Depart. Mines.
British East Africa.—Potonié, H., 2.
British fauna and flora, origin of recent. —Kendall, P. F., 2.
British Guiana (S. Am.).—Harrison, J. B., 1–4.
British Isles.—*See* Great Britain, Geol. Surv., *&c.*
British Museum, Permo-Carboniferous plants.—Arber, E. A. N.; *see also* Museum.
British New Guinea (Pacific).—Brown, G.
British North Borneo (E.I.).—Dieseldorf, A.
Brocan Hill (Piedmont).—Roccati, A., 4.
——, Lake (Piedmont).—Roccati, A., 2.
Brocken massif (Harz Mts.).—Erdmannsdœrffer, O. H.
Brontosaurus.—Osborn, H. F., 2.
Brookite.—Palache, C.
Brosso (Piedmont).—Colomba, L., 1–3.
Brown coal, Austria.—Michael, R.
——, Germany.—Bruhns, W.; Linstow, O. von.
Bruay (Pas-de-Calais).—Barrois, C., 2; Malaquine, A.
Bruchsal (Baden).—Beierle, K.
Brucite.—Julien, A. A., 2.
Brünn (Moravia).—Suess, F. E., 2 & 3.
Brunswick (Germany).—Grupe, O., 2; Harbort, E., 2; Stolley, E., 4–10; Wollemann, A., 2.
Brussels (Belgium).—Forir, H., 2; Mourlon, M., 1 & 3.
Bruxellian, Brussels.—Mourlon, M.
Bryograptus.—Ruedemann, R.
Bryozoa, Carboniferous.—Stuckenberg, A.; Ulrich, E. O., 2.
——, Cretaceous.—Brydon, R. M.; Lang, W. D., 1 & 2.
——, Devonian.—Clarke, J. M., 5.
——, Jurassic.—Cragin, F. W.
——, Quaternary.—Bullen, R. A.
——, Silurian.—Bassler, R. S.; Hennig, A.; Whiteaves, J. F.
Buccinum.—Welch, R.
Bucegi Massiv (Rumania).—Popovići-Hartzeg, V.
Buchiola.—Reed, F. R. C., 2.
Buck-Hill Grit, Charnwood.—Bennett, F. W., 4.
Bückeburg (Prussia).—Harbort, E.
Buckinghamshire.—White, H. J. O., 2.
Budigsdorf (Moravia).—Wilschowitz, H.
Buffaure (Val di Fassa).—Tacconi, E.
Bugulopsis.—Bullen, R. A.
Building-stones, effect of fire on.—Baldwin-Wiseman, W. R., 3.
—— ——, Germany.—Bruhns, W.
—— ——, India.—Holland, T. H., 2.
—— ——, Iowa.—Beyer, S. W.
—— ——, Victoria.—Kitson, A. E.
Bulandshöfdi (Iceland).—Knipovich, N.
Bulawayo (Rhodesia).—Johnson, J. P., 3; Mennell, F. P., 2.
Bulgaria.—Cvijič, J.; Launay, L. de, 2; Scorpil, H.
Bulla.—Oppenheim, P.
Bülten, Gr. (Brunswick).—Stolley, E., 6.
Bulze (Transylvania).—Kadič, O., 2.
Bundelkand (Bengal).—Silberrad, C. A.; Vredenburg, E., 2 & 3.
Burdigalian, Alpes-Maritimes.—Lambert, J., 2.
Bure zone, Liége Devonian.—Dewalque, G. J. G., 3.
Büren (Westphalia).—Stille, H., 2.
Burgundy (France).—Constant, A.; Gaubert, P., 4; *see also* Côte-d'Or, *&c.*

Burma.—Bauer, M.; La Touche, T. D., 3; Pilgrim, G. E., 2.
Burnotian, Luxembourg.—Dorlodot, H. de, 2.
——, Rhenish Prussia, &c.—Dorlodot, H. de, 3.
Burtness Combe (Cumberland).—Rastall, R. H.
Buru I. (Molucca Is.).—John, C. von, 2; Kossmat, F., 4.
Bushveld (Transvaal).—Gau, W. J.; Kynaston, H., 7.
Buttermere (Cumberland).—Rastall, R. H., 1 & 2.
Bwool (Celebes).—Koperberg, M.
Byans Pass (Himalayas).—Diener, C., 2 & 5.

Cabrerite.—*See* Sachs, A.
Cadagno Lake (Ticino).—Garwood, E. J.
Cadlimo upland (St. Gothard massif).—Mariani, E., 3.
Cadmium-mineral, new.—Schneider, O.
Caen (Normandy).—Bigot, A., 2.
Caermarthenshire (Wales).—Cantrill, T. C., 2; Evans, D. C.
Caffaro Valley (Lombardy).—Mariani, E., 2.
Cahaba coalfield (Ala.).—Smith, E. A., 2.
Cairo Geological Museum.—Hume, W. F., 2.
Cajamarca, Prov. of (Peru).—Santollalla, F. M.
Calabar River (S. Nigeria).—Parkinson, J., 2.
Calabria (Italy).—Jervis, W. P.; Lugeon, M., 4; Neviani, A., 3; Prever, P. L.
Calafuria Massif (Tuscany).—Manasse, E.
Calais-Dover Tunnel.—Dollfus, G., 6.
Calamophyllia.—Koby, F.
Calcareous rocks, Griqualand West.—Young, R. B.
—— schist, Furgen Valley.—Stella, A.
—— ——, Liguria.—Franchi, S., 5.
—— ——, Piedmont.—Novarese, V.
—— tufa, Alfeld.—Menzel, H.
—— ——, Gothland.—Halle, T. G.
Calciferous Sandstone, Scotland.—Crampton, C. B.
Calcite.—Achiardi, G. d'; Buttgenbach, H., 2 & 3; Fedorov, E. von, 3; Manasse, E., 2; Repossi, E.; Zimányi, K.
——, alterations of.—Cornu, F., 4.
——, phosphorescent.—Headden, W. P.
Caledon (Cape Colony).—Hahn, P. D.
Caledonian folds, Belgium.—Simoens, G., 7.
Calicut (Travancore).—Neilson, R. G.
California (U.S.A.).—Anon., 29 & 35; Arnold, R., 1 & 2; Bagg, R. M. (*fil.*); Branner, J. C., 3; Davidson, G., 1 & 2; Davison, C., 6; Furlong, E. L.; Gidley, J. W., 2; Gilbert, G. K., 2, 4, & 5; Gill, H. V.; Gunther, C. G., 2; Hanks, H. G.; Hershey, O. H.; Knopf, A., 1 & 2; Lapparent, A. de; Mendenhall, W. C., 2–5; Murgoci, G. M., 3; Omori, F.; Schuchert, C., 2; Taber, S.; Tarr, R. S., 4; Ward, L. F.; Waring, G. A.; *see also* San Francisco, Earthquakes, *&c.*
California, Lower (Mex.).—Farrington, O. C., 3.
Californites.—Hyatt, A.
Callabonna, Lake (S. Austral.).—Stirling, E. C.
Callao (Peru).—Sutton, C. W.
Calleycancha (Peru).—Pfluecker, L., 2.
Calliostoma.—Bullen, R. A.; Cossmann, M., 3.
Callipteridium.—Vinassa de Regny, P., 6.
Callipteris.—Grand'Eury, F. C., 2.
Callocardia.—Jukovski, E., 2.
Callomenus.—Sinclair, W. J.
Callovian, Saratov Gov.—Pavlov, A. V.
Calyculina.—Gutzwiller, A.
Calymene.—Reed, F. R. C., 4.
Camarophoria.—Vinassa de Regny, P., 6.
Camarotœchia.—Vaughan, A.; Whiteaves, J. F.
Cambotte, La (Savoy).—Clemençot, —.
Cambrian, British Columbia.—Whiteaves, J. F., 3.
——, China.—Lorenz, T., 2; Walcott, C. D., 3 & 4.
——, Finland.—Ramsay, W.
——, Languedoc.—Miquel, J.
——, Nevada (U.S.A.).—Pack, F. J.
——, New Mexico.—Gordon, C. H.
——, Pennsylvania.—Bascom, F.; Stose, G. W.
——, South Australia (N. Terr.).—Brown, H. Y. L., 2; Etheridge, R. (*fil.*).
Cambridgeshire.—Bullen, R. A., 2; Jukes-Browne, A. J., 3.
Cameroons (W. Africa).—Schmeisser, C.
Campbell-Rand Series, Cape Colony.—Rogers, A. W., 2.
Camp-Ras (Ariège).—Azéma, —.
Campania (Italy).—Baratta, M.
Campine (Belgian & Dutch).—Lohest, M., 4.
Campophyllum.—Vaughan, A.
Campsosaurus.—Brown, B.
Campteroneura.—Handlirsch, A., 3.
Camptonite, New Zealand.—Marshall, P., 3.
Camptophlebia.—Handlirsch, A., 3.
Camptopteris.—Nathorst, A., 5.
Canada.—Ingall, E. D., 1 & 2; Mabery, C. F.
——, geological survey.—Adams, F. D.; Bell, R., 1–4.
——, geology, &c., 1904.—Ami, H. M.
——. *See also* Assiniboia, Manitoba, Ontario, Iron, *&c.*
Canadian Rocky Mts., glaciation.—Sherzer, W. H.
Canary Is.—Sapper, K., 2.

Cancellaria.—Oppenheim, P.
Cancrinite-syenite, Finland. — Sundell, I. G.
Candona.—Cappelli, G. B.
Caninia.—Vaughan, A.
Cannock Chase (Staffs). — Cockin, G. M.
Canonbie (Dumfries).—Kidston, R., 2; Peach, B. N., 6.
Cañon Range (Utah).—Davis, W. M.
Cantal (France).—Verworn, M.
Cape Colony (S.A.).—Beck, R., 2; Blake, G. S.; Broom, R., 1–6; Du Toit, L., 2 & 4; Hahn, P. D.; Harger, H. S.; Hatch, F. H., 1–4; Knox, A.; Reed, F. R. C.; Rogers, A. W., 1 & 2; Ronaldson, J. H.; Sandberg, C. G. S.; Schunke-Hollway, H. C.; Schwarz, E. H. L., 1–9; Sjögren, H., 4; Young, R. B., 1 & 2.
Caprina.—Pâquier, V., 2.
Captosoma.—Gregory, J. W., 4.
Capulus.—Cossmann, M., 3.
Caradocian, Westmorland. — Marr, J. E., 3.
Carbonado.—*See* Bort.
Carbonic-acid gas, natural.—Delkeskamp, R.
Carboniferous, Archadinsk District.—Pavlov, A. V., 2.
——, Carnic Alps. — Gortani, M., 2; Vinassa de Regny, P., 4.
——, Cornwall & Devon.—Arber, E. A. N., 3.
——, Derbyshire, Flintshire, & Shropshire.—Hind, W., 4.
——, Dumfriesshire.—Peach, B. N., 6.
——, Hainault.—Cornet, J., 3 & 6.
——, Hungary.—Frech, F., 7.
——, Ireland.—Hind, W.; Matley, C. A.
——, Kansas.—Beede, J. W.; Wooster, L. C.
——, Kentucky.—Ulrich, E. O., 2.
——, Lancashire. — Watson, D. M. S., 2.
——, Liége.—Fourmarier, P.; Renier, A., 2.
——, Limestone, Somerset. — Sibly, T. F.
——, Manchuria.—Zalesski, M., 2.
——, New Mexico.—Keyes, C. R., 4.
——, New South Wales. — Etheridge, R. (*fil.*); Taylor, T. G.
——, Nord.—Carpentier, A., 1, 3, & 4.
——, Northumberland.—Lebour, G. A., 3.
——, Pas-de-Calais.—Barrois, C., 2.
——, Sahara.—Foureau, F.; Peron, A., 3.
——, St. Etienne.—Termier, P., 5.
——, Staffordshire. — Cockin, G. M.; Ward, J., 1 & 2.
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——, Ural Mts. — Lœwinson-Lessing, F., 7.
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—— Limestone, Aberlady, Dunbar, & St. Monans.—Crampton, C. B.
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—— cliffs, Cape la Hève. — Lemesnil, H.
—— flints.—Stanley, W. F.

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Chalk-marl, German New Guinea Tertiary.—Haupt, O.
——, Hainault.—Cornet, J.
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Chanoides.—Eastman, C. E.
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—— geology.—Clarke, F. W.
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Clay-pit, Skitt's Hill.—Reader, F. W.
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——, metalliferous veins with.—Halse, E., 2.
——, Schleswig-Holstein gravel &.—Gagel, C.
——. *See also* Auriferous, Banket, Volcanic, *&c.*
Congo Basin (Africa).—Foureau, F.; Buttgenbach, H.; Knox, A.
Congo Free State (Africa).—Buttgenbach, H., 1, 4, & 5; Cornet, J., 4.
Congress.—*See* Geological Congress.
Connecticut Cortlandtite.—Hobbs, W. H., 3.

Conocardium.—Scupin, H.; Vinassa de Regny, P., 6.
Conocephalina & Conocephalites.—Lorenz, T., 2.
Conocoryphe.—Miquel, J.
Constance, Lake.—Blaas, J.; Paulcke, W.; Schalch, F.
Constantine (Algeria).—Termier, P., 4.
Contact-metamorphism, Bohemia.—Grænzer, J.
—— ——, Mull, I. of.—Smythe, J. A.
—— ——, ore-deposits &.—Waller, G. A.
—— ——, Rhenish Bavaria.—Burckhardt, K.; Duell, E.; Reis, O. M., 3.
—— ——, Silesia.—Rosiwal, A.
—— ——. *See also* Ore-deposits, Metamorphism, *&c.*
Continental deposits.—Barrell, J.
Continents of Africa & S. America, former connexion.—Schwarz, E. H. L., 5.
Contumaza, Prov. of (Peru).—Santolalla, F. M., 3.
Conularia, Ordovician.—Želízko, J. V.
Conus.—Dautzenberg, P.; Oppenheim, P.
Convexastræa.—Angelis d'Ossat, G. de; Koby, F.
Cook Inlet (Alaska).—Stanton, T. W., 2.
Coon Butte (Ariz.).—Barrington, D. M.; Farrington, O. C.; Fletcher, L.; Tilghman, B. C.
Coon Mountain (Ariz.).—*See* Coon Butte.
Copiapite.—Bœckh, H., 3; Weinschenk, E., 2.
Copper, Alaska.—Grant, U. S.; Mendenhall, W. C.
——, Alsace.—Ungemach, —.
——, Argentina.—Bodenbender, G.
——, Arizona.—Lindgren, W., 4; Reid, J. A.
——, Asia Minor.—Freise, F.
——, Bolivia.—Steinmann, G., 3.
——, Celebes (D.E.I.).—Koperberg, M.
——, Chile.—Herrmann, A.; Muro, J.; San Roman, F. J.
——, German Empire.—Bruhns, W.; *see also* Harz, Nassau, *&c.*
——, Harz Mts.—Hornung, F.
——, Huelva.—Wetzig, B.
——, Mexico.—Kemp, J. F., 5; Warwick, A. W.
——, Missouri.—Bain, H. F., 3.
——, Namaqualand.—Ronaldson, J. H.
——, Nassau.—Einecke, G.
——, Nevada.—Knopf, A.; Lawson, A. C.
——, New Jersey.—Kuemmel, H. B., 2.
——, New South Wales.—Hall, W. H.; *see also* New South Wales, Dep. Mines.
——, Ontario.—Barlow, A. E., 1 & 2; Browne, D. H.
——, Peru.—Dueñas, E. I.; Fuchs, F. G.
——. precipitation by natural silicates.—Sullivan, E. C.
——, Predazzo eruptives with native.—Block, J.
Copper, Quebec.—Bell, R., 3 & 4; Dresser, J. A., 2.
——, Rhodesia.—Brackenbury, C.
——, Salzburg Alps.—Bleeck, W. G.
——, São Paulo.—Hussak, E., 4.
——, Shan States (Northern).—Fermor, L. L., 5.
——, South Australia.—Hancock, L. G.
——, Transylvania.—Papp, K. von.
——, Utah.—Boutwell, J. M.
——, Virginia.—Weed, W. H.; *see also* United States, Min. Resources.
——. *See also* Ores, secondary enrichment of.
Copper River (Alaska).—Mendenhall, W. C.
Coral-islands (Indian Ocean).—Gardiner, J. S.
—— —— (Pacific Ocean).—Mawson, D., 1 & 2.
Coral-reefs, origin of.—Mawson, D., 1 & 2; Suess, E., 2; Vœltzkov, A.
Corallian, Buckinghamshire.—Davies, A. M.
Corals, Cambrian.—Lorenz, T., 2.
——, Carboniferous.—Carruthers, R. G.; Duerden, J. E.; Frech, F., 7; Hind, W.; Matley, C. A.; Stuckenberg, A.; Ulrich, E. O., 2; Vaughan, A.
——, classification of the Fungidæ.—Vaughan, T. W.
——, Cretaceous.—Angelis d'Ossat, G. de; Felix, J.; Krumbeck, L.
——, Devonian.—Duerden, J. E.; Gordon, C. E.; Maillieux, E.; Schwarz, E. H. L., 8.
——, Jurassic.—Cragin, F. W.; Deninger, K.; Koby, F.
——, mineral replacement on fossilization.—Hartzell, J. C.
——, Silurian.—Carruthers, R. G.; Clarke, J. M., 7; Gordon, C. E.; Shearsby, A. J.; Whiteaves, J. F.
——, Tertiary.—Gregory, J. W., 3; Oppenheim, P., 3; Vaughan, T. W., 1 & 2.
Corbières (Languedoc).—Grossouvre, A. de; Toucas, A.
Corbis.—Krumbeck, L.; Seidlitz, W. von.
Corbula.—Cragin, F. W.; Icke, H.; Jukovski, E., 2; Oppenheim, P.
Cordania.—Clarke, J. M., 5.
Cordierite, Lake District.—Harker, A., 2.
Cordillerites.—Hyatt, A.
Cordova, Sierra de (Argentina).—Bodenbender, G.
Corea.—Yabe, H.
Cork, Co. (Ireland).—Scharff, R. F.; Ussher, R. J., 2.
Cornfield (Mo.).—Siebenthal, C. E.
Cornwall.—Arber, E. A. N., 3; Collins, J. H.; Elsden, J. V.; Fox, H.; Green, U.; Hill, J. B.; Pearce, R.; Whitley, D. G.; Williams, R. H.
Cornwall (Pa.).—Travis, C.
Corocoro (Bolivia).—Steinmann, G., 3.

Coroniceras.—Buckman, S. S., 3.
Corries (Co. Waterford).—Reed, F. R. C.
Corsica.—Deprat, J., 2–4; Rovereto, G.
Corsiehill (Perth).—Bates, G. F.
Corsuet (Savoy).—Poitevin, —, 3.
Cortlandt Series, Connecticut.—Hobbs, W. H., 3.
Cortlandtite, New England.—Bastin, E. S.; Hobbs, W. H., 3.
Corundum, occurrence of.—Crook, T.
——, Ontario.—Kerr, D. G.
——, United States.—Pratt, J. H.
——. *See also* Sapphire.
Corynexochus.—Miquel, J.
Cosenza (Calabria).—Prever, P. L.
Cosina-Beds, Herzegovina.—Katzer, F., 5.
Cosmonautilus.—Hyatt, A.
Costa Rica (C. Am.).—Sapper, K.
Côte-d'Or (France).—Drioton, C.; Petiton, A.
Cotentin (Normandy).—Cossmann, M., 3.
Cottbus (Brandenburg).—Schrœder, H., 4.
Cottés, Grotte des (Poitou).—Breuil, H.
Cotteswold Hills.—Buckman, S. S., 2.
Cottian Alps.—*See* Alps.
Couradella.—Reed, F. R. C., 3.
Courmes (Alpes-Maritimes). — Cossmann, M.
Couvin (Namur).—Fourmarier, P., 2; Maillieux, E.
Crabs, Tertiary.—Manek, F.
Crag, East Anglia.—Harmer, F. W., 2; Ridley, E. P.
——, Iceland.—Pjetursson, H.
Cranfield (Co. Down).—Welch, R.
Crania.—Krumbeck, L.
Crassatella.—Krumbeck, L.; Pethœ, J.
Crassatellites.—Woods, H.; Wright, A. M., 2.
Crater Mt. (Ariz.).—*See* Coon Butte.
Creation, law of.—Silva, E.
Creodontia, Mesozoic.—Tomes, C. S.
Cretaceous, Alpes-Maritimes. — Hitzel, E.; Maury, E.
——, Albania.—Nopcsa, F., Baron (*fil.*), 3.
——, Algeria.—Blayac, J.; Ficheur, E., 2.
——, Antarctica.—Kilian, W., 5.
——, Archadinsk District.—Pavlov, A. V., 2.
——, Berkshire.—White, H. J. O., 1 & 3.
——, Bohemia.—Jahn, J. J., 2.
——, Borneo.—Icke, H.
——, Catalonia.—Angelis d'Ossat, G. de.
——, Crimea.—Borisyak, A.
——, Dalmatia.—Katzer, F., 6; Schubert, R. J., 3.
——, Dauphiné.—Jacob, C.
——, Donetz Basin.—Borisyak, A., 2.
——, Egypt.—Gregory, J. W., 4.
——, Galicia.—Felix, J.
——, Germany (N.).—Deecke, W.; Harbort, E., 2; Richter, P. B.; Stille, H., 3; Wollemann, A., 2 & 3.
Cretaceous, Glatz.—Flegel, R.
——, Greece.—Négris, P., 3 & 5; Renz, C., 5.
——, Haine Valley.—Cornet, J., 5.
——, Herzegovina.—Katzer, F., 5.
——, Hungary.—Pethœ, J.
——, Italy (S.).—Parona, C. F.
——, Languedoc & Provence.—Grossouvre, A. de; Toucas, A.
——, Madagascar. — Colcanap, —, 2; Thévenin, A., 2–4.
——, Moravia.—Wilschowitz, H.
——, Morocco.—Brives, A.; Kilian, W., 7.
——, New Caledonia.—Kilian, W., 9.
——, New Jersey.—Berry, E. W., 2.
——, New Mexico.—Keyes, C. R., 3.
——, Nigeria.—Parkinson, J., 7.
——, Norfolk.—Bonney, T. G.; Brydone, R. M.; Hudleston, W. H.
——, Oxfordshire.—Dawkins, C. G. E.
——, Persia.—Morgan, J. de.
——, Poland.—Siemiradzki, J. von, 3.
——, Provence.—Kilian, W., 2; Replin, J.
——, Prussia (W.).—Jentzsch, A., 5.
——, Pyrenees.—Carez, L.; Pâquier, V.
——, Rumania.—Macovei, G.; Simionescŭ, J.
——, Sahara.—Foureau, F.
——, Schaumburg-Lippe.—Harbort, E.
——, Senegambia.—Peron, A.
——, South Australia (N. Terr.). — Brown, H. Y. L.
——, Surrey.—Herries, R. S., 2.
——, Swiss Jura.—Baumberger, E.
——, Tripoli.—Krumbeck, L.; Parona, C. F., 2.
——, Tyrol.—Ascher, E.
——, Volhynia.—Laskarev, V.
——, Westphalia.—Stille, H., 1–3; Wegner, T.
——, Wight, Isle of.—Leriche, M., 3.
——. *See also* Chalk, Neocomian, Plants, *&c.*
Crete.—Bullen, R. A.; Cayeux, L.; Freise, F.
Crewe (Cheshire).—Pocock, T. I.
Cribrilina.—Brydone, R. M.
Crimea (Russia).—Andrussov, N.; Borisyak, A.; Palibin, J. V., 2; Seninski, K.
Crinoidea, Carboniferous.—Foureau, F.; Matley, C. A.; Schuchert, C., 3; Ulrich, E. O., 2.
——, Cretaceous.—Pellat, E.
——, Devonian. — Bather, F. A., 3; Clarke, J. M., 5 & 6; Schmidt, W. E.; Springer, F., 2; Whitfield, R. P.
——, Jurassic.—Gentil, L., 3.
——, Silurian.—Springer, F.
Crioceras.—Sintzov, J.
Crisia.—Bullen, R. A.
Croatia.—Gorjanović-Kramberger, K.
Crocodiles, Cretaceous. — Williston, S. W., 3.
Crocodilus.—Andrews, C. W.; Thyng, F. W.

Cromer (Norfolk).—Harmer, F. W.; Lorié, J., 2; Reid, C., 2.
Cromerian, Belgium, &c.—Dubois, E.
Cross Fell (Westmorland).—Marr, J. E., 3.
Croydon (Queensl.).—Dunstan, B.
Cruce Village (Rumania).—Nicolau, T., 2.
Crustacea, Cambrian.—Whiteaves, J. F., 3.
——, Carboniferous.—Baldwin, W., 2; Peach, B. N.
——, Cretaceous.—Borisyak, A.; Harbort, E., 1 & 2; Woodward, H., 6.
——, Jurassic.—Jackson, R. T.
——, Silurian.—Seemann, F.
——, Tertiary.—Bœhm, J., 1 & 2.
——. *See also* Ostracoda, Trilobites, *&c.*
Cryptocœnia.—Koby, F.
Cryptonella.—Clarke, J. M., 5; Newton, E. T.
Crystalline breccia, Savoy.—Renevier, E.
—— limestone, Ceylon. — Coomáraswámy, A. K., 2.
——, pebbles, Sylt I.—Petersen, J.
—— rocks, Grisons.—Hœk, H.; Zœppritz, K.
—— ——, metallic ores in.—Trener, G. B.
—— ——, Nigeria.—Parkinson, J., 5 & 7.
—— ——, St. Gariel Mts.—Arnold, R., 2.
—— schists, relation of igneous rocks to.—Mennell, F. P., 5.
—— ——, structure of.—Becke, F.; Grubenmann, U., 2; Weinschenk, E.
—— ——. *See also* Schists.
Crystallization in magmas.—Vogt, J. H. L.
——, schistosity &.—Wright, F. E., 2.
Crystallographic projections. — Evans, J. W., 4; Fedorov, E. von; Penfield, S. L.
Crystallography. — Duparc, L., 3; *see also* Internat. Cat. Sci. Lit., Min.
Crystals, composite-metal slag.—Mœnkemeyer, H.
——, deformation of, by pressure.—Lœwinson-Lessing, F.
——, etched figures &. — Muegge, O., 2.
——, gold.—Samoilov, I., 2.
——, interference-figures &.—Joachim, H.
——, measuring microscopic. — Hamberg, A., 5.
——, optic axial angle of biaxial.—Evans, J. W., 1 & 5.
——, optical refraction of.—Pearce, F.
——, refractive indices of.—Wright, F. E.
——, symmetry of.—Sommerfeldt, E., 1 & 2.
——, twinning of.—Weyberg, Z.
Csallókoz I. (Hungary).—Timkó, E.
Csermosnya Valley (Hungary).—Acker, V.; Gesell, A., 2.
Csóra (Hungary).—Halaváts, J.
Ctenodonta.—Scupin, H.
Cucullæa.—Cragin, F. W.; Borisyak, A., 3; Newton, R. B.; Pethœ, J.
Cudowa-Reinerz Ry. (Glatz). — Flegel, K.
Cuesmes (Hainault).—Cornet, J., 2.
Cullinan diamond.—Molengraaff, G. A. F., 3.
Culm, Carnic Alps.—Krause, G.; Vinassa de Regny, P., 5.
——, Thuringia.—Lehder, J.
Culverhole (Devon).—Richardson, L., 7.
Cumberland.—Kidston, R., 2; Marr, J. E., 2; Postlethwaite, J.; Rastall, R. H., 1 & 2; Shanks, J.
Cumberland Gap (Ky.).—Ashley, G. H.
Cunnington, W., *Obit.*—*See* Anon., 4.
Curienne (Savoy). — Hollande, D., 2; Vivien, J., 4.
Curticia.—Walcott, C. D., 2.
Cuspidaria.—Cossmann, M., 2.
Cusworth (Yorks).—Culpin, H.
Cuyuni R. (British Guiana).—Harrison, J. B., 1–4.
Cyathaxonia & *Cyathaxonia*-beds, Rush. —Matley, C. A.
Cyathocrinus.—Whitfield, R. P.
Cyathophyllum. — Carruthers, R. G.; Frech, F., 7; Vaughan, A.
Cybele.—Reed, F. R. C., 4.
Cycadeoidea.—Ward, L. F.; Wieland, G. R.
Cycads, recent & fossil.—Seward, A. C.
Cyclocly peus.—Schubert, R. J.
Cyclopitys.—Krasser, F., 2.
Cyclopteris.—Vinassa de Regny, P., 6.
Cyclopyge.—Reed, F. R. C.
Cylindrites.—Seidlitz, W. von.
Cyphosoma.—Gregory, J. W., 4.
Cypræa.—Cossmann, M., 3; Krumbeck, L.; Oppenheim, P.
Cypricardella & *Cypricardinia.* — Scupin, H.
Cypridea.—Chapman, F., 2.
Cypridina.—Jones, T. R.; Neviani, A., 2; Ulrich, E. O.
Cyprimeria.—Pethœ, J.
Cyprina.—Cragin, F. W.; Pethœ, J.
Cypris Hills (Assiniboia.)—Lambe, L. M., 2 & 3.
Cyprus.—Bate, D. M. A.; Dunstan, W. R., 4; Freise, F.
Cyrena.—Ascher, E.
Cyrtina.—Clarke, J. M., 5.
Cyrtoceras.—Whiteaves, J. F., 1 & 3.
—— & *Cyrtorhizoceras.*—Clarke, J. M., 7.
Cyrtodelphis.—Piaz, G. dal.
Cystoidea, Cambrian.—Pack, F. J.
Cythere.—Cappelli, G. B.; Neviani, A., 2; Ulrich, E. O.
Cytherea.—Pethœ, J.
Cytherella, Cytheridea, & *Cytheropteron.*—Cappelli, G. B.

Cytherura & Cythrideis.—Neviani, A., 2.
Czekanowskia.—Krasser, F., 2.
Czella (Transylvania).—Kadić, O.
Czelna (Transylvania).—Roth von Telegd, L.

Dabas, Lower (Hungary).—Guell, W.
Dadoxylon.—Arber, E. A. N.
Daimonelix-beds, Nebraska.—Barbour, E. H.
Dakota (U.S.A.).—Darton, N. H., 2; Mansfield, G. R.
——, South (U.S.A.).—Matthew, W. D.
—— Formation, United States.—Keyes, C. R., 3; Stanton, T. W.
Dalecarlia (Sweden).—Wiman, C., 2.
Dalhousie Springs (N. Terr., S. Austral.).—Brown, H. Y. L.
Dalles, St. Croix.—Upham, W.
Dalmanites.—Clarke, J. M., 5.
Dalmatia.—Dainelli, G.; Katzer, F., 6; Kerner, F. von, 1–4; Schubert, R. J., 3 & 5; Waagen, L.
Dalradian Grit, Argyllshire.—Hill, J. B., 2.
Damesella.—Walcott, C. D., 3.
Danbury (Essex).—Salter, A. E., 2.
Dandli (Kashmir).—Wright, C. M. P.
Dannemora (Svealand).—Sjœgren, H., 6.
Danube R.—Fraas, E., 2; Guell, W., 2.
——, Little (Hungary).—Horusitzky, H., 2.
Danubites.—Hyatt, A.
Daonella.—Renz, C., 2.
Darcey Valley (Côte-d'Or).—Contant, A.
Dargilan (Lozère).—Carrière, G.
Darial Mt. (Caucasus).—Lœwinson-Lessing, F., 3.
Datolite.—Kraus, E. H., 2; Tacconi, E.
Dauphiné (France).—Badoureau, —; Decombaz, O., 2; Gonnard, F., 3; Haug, É.; Jacob, C., 1 & 2; Kilian, W.; Lamothe, R. de, 2; Lévy, Aug. M.; Lory, P.; Révil, J., 6; Termier, P.
Daviesiella.—Vaughan, A.
Dawdon (Durham).—Brown, M. W.
Dawe's Heath (Essex).—Salter, A. E., 3.
De Rance, C. E., *Obit.*—*See* Anon., 5.
Dearne Valley (Yorks).—Carter, W. L., 2.
Decastis.—Sinclair, W. J.
Deccan Trap, Nagpur.—Datta, P. N.
Deep-sea deposits.—Flint, J. M.; Thoulet, J.
Deer Creek (Ariz.).—Campbell, M. R., 2.
Defrance Collection, Caen.—Bigot, A., 2.
Deiphon.—Reed, F. R. C., 4.
Delavan (Mich.).—Alden, W. C.
Delphinula.—Cragin, F. W.
Delta, Mississippi R.—MacBeth, W. A., 2.
Deltopecten.—Etheridge, R. (*fil.*).
Denbigh (N. Wales).—Anon., 37.
Dendrograptus.—Ruedemann, R.
Denmark.—Gagel, C., 8; Hill, E.; Ravn, J. P. J.
Denny Hill (Gloucester).—Paris, E. T.
Dent-Blanche massif (Savoy).—Argand, É.
Dentalina.—Bullen, R. A.
Dentalium.—Cossmann, M., 3; Oppenheim, P.; Richardson, L.
Dentaliidæ, Liassic.—Richardson, L.
Denudation, subaërial.—Andersson, J. G., 2.
——, Yorkshire.—Macturk, G. W. B.
——. *See also* Coast-erosion, Solifluction, Weathering, *&c.*
Derbya.—Vaughan, A.
Derbyia.—Vinassa de Regny, P., 6.
Derbyshire.—Arnold-Bemrose, H. H.; Barnes, J.; Cole, G. A. J.; Hind, W., 4; Johns, C., 3; Terry, H. L.
Dermoseris.—Koby, F.
Dernö (Hungary).—Gesell, A., 2.
Derwentwater (Lake District).—Marr, J. E., 2.
Desert-deposits.—Barrell, J.
—— Plateau (Savoy).—Douxami, H., 10.
——, Sahara.—Foureau, F.
Deserts, weathering in.—Hilgard, E. W.
Desertella.—Foureau, F.
Desmatophoca.—Condon, T.
Desmoceras.—Jacob, C.
Deux-Sèvres (France).—Welsch, J., 1–4.
Déva (Transylvania).—Halaváts, J.; Nopcsa, F., Baron (*fil.*).
Devero Valley (Piedmont).—Stefani, C. de, 2.
Devil's Kantoor (Transvaal).—Hall, A. L., 2.
Devon.—Arber, E. A., 3; Fletcher, J. H.; Hobson, B.; Hunt, A. R., 2; Jukes-Browne, A. J., 5; Lomas, J.; Richardson, L., 7; Salter, Mary, 1 & 2; Ussher, W. A. E.; Woodward, H. B., 3 & 4; Young, T.
Devonian, Ardennes.—Cayeux, L., 3.
——, Brazil.—Clarke, J. M., 4.
——, Condroz massif.—Simoens, G., 7.
——, Cape Colony.—Schwarz, E. H. L.
——, Carnic Alps.—Scupin, H.; Vinassa de Regny, P., 7.
——, Cornwall.—Fox, H.
——, Devon.—Jukes-Browne, A. J., 5.
——, Falkland Is.—Newton, E. T.
——, Harz.—Bode, G., 2.
——, Hesse.—Einecke, G.
——, Liége.—Dewalque, G. J. G., 3; Fourmarier, P., 3.
——, Luxemburg.—Dorlodot, H. de, 2.
——, New York.—Clarke, J. M., 5 & 6; Slocom, A. W.; Williams, H. S., 2.
——, Nord.—Landrière, J., 2.
—— pebble-bed, Belgian Luxemburg.—Duvigneaud, —.
——, Pennsylvania.—Butts, C.; Kindle, E. M., 2.
——, Podolia.—Siemiradzki, J. von, 1 & 2.

Devonian, Rhenish Prussia.—Dorlodot, H. de, 3.
——, Sahara.—Foureau, F.; Haug, É., 2.
—— schists, Couvin.—Fourmarier, P., 2.
——, Tyrol.—Ohnesorge, T. 2.
——, Westphalia.—Schmidt, W. E.
Dewalque, G. J. G., *Obit.*—*See* Aichino, G.; Woodward, H., 3.
Dharwar District (S. India).—Maclaren, J. M., 3.
Diabase, Ambon.—Verbeek, R. D. M.
——, Apuan Alps.—Aloisi, P.
——, Bohemia.—Grænzer, J.
——, Caermarthenshire.—Cantrill, T. C., 2.
——, Dalmatia.—Kerner, F. von.
——, Finland.—Ramsay, W., 4; Wahl, W.
——, Gullane Hill.—Young, B. R.
——, Harz.—Bode, G., 2; Koch, M.
——, Jeschken Mts.—Grænzer, J.
——, Macquarrie I.—Marshall, P., 2.
——, Massachusetts.—Emerson, B. K.
——, Nassau.—Brauns, R.
——, São Paulo.—Hussak, E., 2 & 4.
——, Tasmania.—Stephens, T.
Diablo Cañon (Ariz.).—Barringer, D. M.; Mallet, J.
Diamantina (Minas Geraes). — Derby, O. A., 2; Hussak, E.
Diamond-bearing sand, minerals, Brazil. —Hussak, E., 1 & 5.
—— pipes & fissures, S. Africa.—Harger, H. S.
Diamonds, Brazil.—Derby, O. A.; Hussak, E., 7.
——, India.—Holland, T. H., 2; La Touche, T. D., 3; Vredenburg, E., 3.
——, New South Wales.—*See* New South Wales, Dep. Mines.
——, Ontario.—Anon., 25.
——, Rhodesia.—Flett, J. S.; Gregory, J. W., 6; Mennell, F. P., 3.
——, Transvaal.—Molengraaff, G. A. F., 3.
Diaphorostoma.—Clarke, J. M., 5.
Diatinostoma.—Cossmann, M.
Dibunophyllum.—Vaughan, A.
Dibunophyllum-zone, Rush. — Matley, C. A.
Diceratops.—Gilmore, C. W., 2.
Dicksonia.—Krasser, F., 2.
Dicranodonta.—Borisyak, A., 3.
Dictyoconus.—Schlumberger, C., 2.
Dictyonema.—Ruedemann, R.
Dictyophyllum.—Nathorst, A., 5.
Dicynodon.—Jækel, O., 2.
Didacna.—Seninski, K., 2.
Didymograptus.—Ruedemann, R.
Didymophyllum.—Schwarz, E. H. L., 8.
Dieconeurites.—Handlirsch, A., 3.
Diego-Suarez (Madagascar).—Lemoine, P., 3.
Diélette (Manche).—Cayeux, L., 5.
Dieneria.—Hyatt, A.
Digor Mt. (Caucasus). — Lœwinson-Lessing, F., 3.
Dihelice.—Schmidt, W. E.
Dimetrodon.—Jækel, O., 3.
Dimorphastræa.—Angelis d'Ossat, G. de.
Dimyodon.—Grœnwall, K. A.
Dinant (Namur).—Dorlodot, H. de, 3.
Dinaric Alps.—Salomon, W.
Dinarites.—Hyatt, A.
Dindymene.—Reed, F. R. C., 4.
Dinichthys.—Hussakof, L., 1 & 2.
Dinosauria, Cretaceous.—Dollo, L.; Lull, R. S.; Osborn, H. F.
——, Jurassic.—Dollo, L.; Woodward, A. S.; Woodward, H., 5.
——, Triassic.—Broom, R., 6; Huene, F. von, 1 & 3; Nopcsa, F. Baron (*fil.*), 2.
Diopside, Finland.—Wahl, W.
Diorite, Argentina.—Bodenbender, G.; Taunhaüser, F.
——, Hesse.—Chelius, C.
——, New Hampshire.—Pirsson, L. V., 2.
——, New Zealand.—Marshall, P., 3.
——, Piedmont.—Franchi, S.; Novarese, V., 2.
——, Transylvania.—Papp, K. von.
——, Urals.—Lœwinson-Lessing, F., 4.
Diotis.—Fucini, A.
Diphyphyllum.—Vaughan, A.
Diplodocus.—Holland, W. J.
Diplodonta.—Pritchard, G. B., 5.
Diplograptidæ, Silurian.—Elles, G. L., 2.
Diplograptus.—Ruedemann, R.
Discocœnia.—Koby, F.
Discohelix.—Oppenheim, P.
Discoidea.—Krumbeck, L.
Discorbina.—Bullen, R. A.
Discostrobus.—Krasser, F., 2.
Discotropites.—Hyatt, A.
Dithmarsch district (Schleswig-Holstein).—Gagel, C., 7.
Dobno (Volhynia).—Laskarev, V.
Dobrudsha (Rumania).—Launay, L. de, 2; Macovei, G.; Simionescŭ, I.
Dobsina (Hungary).—Frech, F., 7.
Dokuchaev, V. V., *Obit.*—*See* Bogoslovski, N. A.
Dolerite, Eigg (Sgùrr of).—Harker, A., 3.
——, Macquarrie I.—Marshall, P., 2.
——, Mull (I. of).—Smythe, J. A.
——, Perthshire.—Bates, G. F,
——. *See also* Trachydolerite.
Dolgadfan (Montgomery).—Wood, E. M. R.
Dolichopodidæ. Tertiary.—Meunier, F.
Dolomite, alterations of.—Cornu, F., 4.
——, Calafuria Massiv.—Manasse, E.
——, Carrara.—Achiardi, G.
——, Engadin.—Schiller, W.; Zœppritz, K.
——, Greenland.—Belowski, M.
——, Grisons.—Hœk, H.
——, Hungary.—Emszt, K.
——, Transvaal.—Hall, A. L., 5; Molengraaff, G. A. F.
—— water-supply, Orange R. Colony & Transvaal.—Wessels, J. W.

Dominica, I. of (W.I.).—Hovey, E. O., 4.
Don Cossacks, Prov. of the (Russia).—Pavlov, A. V., 2.
Don Valley (Yorks).—Carter, W. L., 1 & 2.
Doncaster (Yorks).—Davison, C., 7.
Doneraile (Co. Cork).—Ussher, R. J., 2.
Dorset.—Chapman, F., 2; Richardson, L., 7; Strahan, A.; Woodward, A. S., 8; Woodward, H. B., 3 & 5.
Doryblatta.—Handlirsch, A., 3.
Dorypygella.—Walcott, C. D., 3.
Douai (Nord).—Gosselet, J., 1 & 2; Simoens, G.
Douvilleiceras.—Jacob, C.
Doux (Neuchâtel).—Schardt, H.
Dover-Calais Tunnel.—Dollfus, G. F., 6.
Down, Co. (Ireland).—Welch, R.
Dragonnière R. (Ardèche).—Raymond, P.
Drainage, New York.—Tarr, R. S., 2.
Drauburg, Lr. (Tyrol).—Dreger, J.
Dreissensia.—Jukovski, E., 2; Seninski, K., 2.
Dresden (Saxony).—Stappenbeck, R.
Drift, British Isles.—Lamplugh, G. W., 3; *see also* Kent, Lincolnshire, *&c.*
——, Iowa.—Eckel, E. C.; Macbride, T. H.; Sauvage, T. E., 1 & 2; Udden, J. A., 1 & 2; Williams, I. A.
——, Kent.—Bennett, F. J., 5.
——, Lauenburg district.—Gagel, C., 9.
——, Lincolnshire.—Stather, J. W.
——, Michigan.—Russell, I. C., 3.
——, Möen.—Hill, E.
——, Schleswig-Holstein. — Gagel, C.; Stolley, E., 1 & 2.
——, Wisconsin.—Alden, W. C.
——, Yorkshire.—Hawkesworth, E.
Drillia.—Cossmann, M., 3.
Drumlins, Michigan.—Russell, I. C., 3.
——, Wisconsin.—Alden, W. C., 2.
——. *See also* Moraines, *&c.*
Drupa.—Perkins, G. H.
Druse-minerals, Saxon granitic porphyry. —Hess von Wichdorff, H.
Dubh, Loch (Argyll).—Hill, J. B.
Dublin, Co. (Ireland).—Matley, C. A.; Pethybridge, G. H.
Duchesne-Fournet Mission.—Arsandaux, H.
Duddon Valley (Lake District).—Marr, J. E., 2.
Dufton Shales.—Marr, J. E., 3.
Dumbartonshire (Scotland).—Sjœgren, H., 5.
Dumfriesshire (Scotland).—Kidston, R., 2; Peach, B. N., 6.
Dumortieria.—Prinz, G., 4.
Dunbar (Haddington).—Crampton, C. B.
Dundas district (W. Austral.).—Campbell, W. D.
Dundasite, N. Wales.—Prior, G. T.
Dunedin (N.Z.).—Andrew, A. R., 1 & 2; Marshall, P., 1 & 3.
Dunes, Belgium.—Andrimont, R. d', 1 & 2.
Dunes, German (N.).—Lehmann, F. W. P.; Solger, F., 2.
——, Lancashire.—Cope, T. H.
——, Massachusetts.—Sears, J. H.
——, Peru.—Pompeckj, J. F., 2.
——, Sahara.—Foureau, F.
——, Seistan.—McMahon, Sir H.
Dunmail Raise (Lake District).—Marr, J. E., 2.
Durlston Bay (Dorset).—Chapman, F. 2.
Dust, volcanic.—Meunier, S., 3.
Dust-fall, Perm Gov.—Abels, H. F.
—— ——, North Atlantic, 1906. — Krebs, W.
Dutch East Indies.—Bœhm, G., 4; Renz, C., 2; Verbeek, R. D. M.; *see also* Java, Molucca Is., *&c.*
Dwight, W. B., *Obit.*—*See* Anon., 6.
Dwyka Conglomerate, Cape Colony.—Sandberg, C. G. S.; Sjögren, H., 4.
Dykes, Ardmuchnish basalt.—Bailey, E. B., 1.
——, Purcell Mts.—Daly, R. A.
Dynamosaurus.—Osborn, H. F.

Earth, axes of the.—Péroche, J.
—— -cliffs, Godrevy.—Whitley, D. G.
——, crust of the.—Daly, R. A.; Fisher, O.; Jourdy, E., 2; Reiss, W.
——, dilational stability of the.—Rayleigh, Lord.
——, evolution of the.—Hutton, F. W.
——, interior of the.—Oldham, R. D.
——-magnetism.—Deecke, W., 5; Littlehales, G. W.
——, moon &.—Simoens, G., 3.
—— -movements, Carboniferous. — Johns, C., 13.
—— ——, sounds from.—Ržehák, A., 3.
——, orogenic scheme of the.—Sacco, F., 10.
——, origin of the.—Darwin, G. H.
——, radium & internal heat of the.—Eve, A. S., 2; Fisher, O., 2; Palmer, B. J.; Reade, T. M., 1 & 2; Strutt, R. J.
——, surface of the.—Arldt, T.
——, underground temperature. — Kœnigsberger, J., 4; Jaczewski, L.; Jenkins, H. C., 2; Marriott, H. F.; Strutt, R. J.
Earth-pillars.—Guenther, S.; Hall, A. L., 2.
Earthquakes, annual registration of.—Milne, J., &c., 5.
——, 1903.—Rudolph, E.
——, 1904.—Milne, J., 4.
——, Ambon.—Verbeek, R. D. M.
——, Asiatic, Eastern.—Rudolph, E., 2.
——, Australasia.—Baracchi, P.
——, Bavaria.—Reindl, J.
——, Belgium.—Munck, E.de; Simoens G., 5.
——, Calabria.—Jervis, W. P.
——, California. — *See* San Francisco district.
——, Campania.—Baratta, M.

Earthquakes, Chile.—Bigourdau, G.; Obrecht, A.
——, Colombia.—Anon., 25.
——, distribution of. — Montessus de Ballore, F. de.
——, Doncaster.—Davison, C., 7.
——, earth's interior &. — Oldham, R. D.
——, Finland.—Rosberg, J. E.
——, Galicia.—Láska, W.
——, Greece.—Eginitis, D.
——, Hungary.—Halecsinszky, A. von, 2.
——, Japan.—Kusakabe, S., 1–4.
——, Kangra Valley.—Anon., 26; Davison, C.; Middlemiss, C. S.; Oldham, R. D., 2.
——, Lancashire.—Davison, C., 4.
——, New Zealand.—Baracchi, P.; Hogben, G., 2–4.
——, Nicaragua.—Sapper, K., 4.
——, Northamptonshire & Yorkshire.—Markham, C. A.
——, Norway.—Kolderup, C. F.
——, origin of.—Benndorf, H.; Gilbert, G. K., 4; Oldham, R. D., 3; Piéron, H.
——, Peru.—Polo, J. T.
——, recording of.—Agamennone, G., 1 & 2; Davison, C., 3.
——, San Francisco district.—Anon., 29 & 35; Branner, J. C., 3; Davidson, G., 1 & 2; Davison, C., 6; Gilbert, G. K., 5; Gill, H. V.; Hogben, G., 3; Lapparent, A. de; Oldham, R. D., 2; Omori, F.; See, T. J. J.; Taber, S.; Tarr, R. S., 4.
——, Switzerland, 1880–1904.—Frueh, J.
——, Triest.—Mazelle, E.
——, underground water &.—Frech, F., 3.
——, volcanic eruptions &.—Heilprin, A., 2.
——, Wales (S.).—Davison, C., 5.
—— -waves.—Davison, C., 2; Hogben, G.
——. *See also* Seismology, *&c.*
Earthworms, continents &.—Benham, W. B.
Eastbourne (Sussex).—Ussher, W. A. E., 2.
East Indies.—Bœhm, G., 4.
Easter I. (Pacific).—Agassiz, A.
Ebro Valley (Spain).—Depéret, C., 4.
Ecca Series, Cape Colony.—Sandberg, C. G. S.
Echinoidea, Cambrian.—Pack, F. J.
——, Carboniferous.—Taylor, T. G.
——, Cretaceous.—Gregory, J. W., 4; Krumbeck, L.; Savin, L. H.; Seguin, —; Sherborn, C. D.
——, Jurassic.—Lambert, J.; Schmidt, M.
——, Tertiary. — Chautard, J.; Lambert, J., 2.
Echinolampas.—Chautard, J.; Gregory, J. W., 4.
Eck, Loch (Argyll).—Hill, J. B.
Eclogite, Puy-de-Dôme.—Capitan, L.
Ecsedi (Hungary).—Guell, W., 3.
Edenite.—*See* Hornblende.
Edentata, Tertiary.—Ameghino, F., 2.
Edible earth, New Guinea.—Meigen, W.
Edintonite, Scotland & Sweden. — Sjœgren, H., 5.
Edriocrinus.—Clarke, J. M., 5.
Education, geology &.—Branner, J. C., 2; Johnson, D. W.; *see also* Geology, practical, *&c.*
Egypt.—Andrews, C. W.; Gregory, J. W., 3 & 4; Hume, W. F., 1 & 2; Knox, A.; Lyons, H. G., 1 & 2; Oppenheim, P.; Rutot, A., 3.
Eigg, Sgùrr of (Hebrides).—Harker, A., 3.
Ekaterinoslav (Russia).—Sokolov, N.
Ekwan River (Canada).—Dowling, D. B.
Elands R. (Transvaal).—Gau, W. J.
Elasmosaurus.—Williston, S. W., 2.
Elba, I. of (Italy).—Aloisi, P., 3.
Elbingerode (Harz). — Schleifenbaum, W.
Elder's Ridge (Pa.).—Stone, R. W.
Eleidæ, Cretaceous.—Lang, W. D.
Elephas.—Mourlon, M., 4; Pfizenmayer, E.; Pilgrim, G. E.; Schrœder, H., 4; Tolmatschov, I. P.; Udden, J. A.
Elk, Irish.—Lœnnberg, E.
Ellero (Cottian Alps).—Franchi, S., 3.
Ellipsoidina.—Schubert, R. J., 2.
Elonichthys.—Traquair, R. H.; Woodward, A. S., 5.
Elsburg Series, Klerksdorp.—Jorissen, E.
Emary, P., *Obit.*—*See* Anon., 7.
Emeus.—Hutton, F. W., 3.
Emilia (Italy).—Bassoli, G. G.; Sangiorgi, D., 1 & 2; Toldo, G.
Emilius, Mt. (Graian Alps).—Stella, A.
Emmet Co. (U.S.A.).—Macbride, T. H.
Emporia (Kan.).—Smith, A. J.
Ems R. (Prussia).—Wollemann, A.
Encrinurus.—Reed, F. R. C., 4.
'Encyclopédie méthodique,' dates of publication of the.—Sherborn, C. D., 4.
Endoiasmus.—Handlirsch, A., 3.
Engadin (Grisons). — Schiller, W.; Zœppritz, K.
Engineers, practical geology &.—Branner, J. C., 2; Irving, J. D.; Merrill, G. P., 3.
England, mines & quarries.—*See* Great Britain, 1–3.
—— (S.E.) water supply.—Shenton, H. C. H.
English Channel-water.—Schlœsing, T.
Enim R. (Sumatra).—Tobler, A.
Eningen (Württemberg). — Gussmann, —.
Ennerdale (Cumberland). — Rastall, R. H.
Ennetières-en-Weppes (Nord).—Briquet, A., 4.

Entalis.—Vinassa de Regny, P., 6.
Entalophora.—Lang, W. D., 2.
Enteletes.—Keidel, H.
Entolium.—Etheridge, R. (*fil.*).
Entomostraca, Devonian.—Clarke, J. M., 6.
——, Quaternary.—Bullen, R. A.
——, Tertiary.—Cappelli, G. B.
Eocene, Algeria.—Savornin, J.
——, Cotentin.—Cossmann, M., 3.
——, Dalmatia.—Dainelli, G.
——, Greece.—Renz, C., 5.
——, Holstein.—Gagel, C., 12.
——, Istria.—Manek, F.
——, Moonee Ponds.—Pritchard, G. B.
——, Paris Basin.—Dollfus, G. F., 2; Leriche, M., 8.
——, Salentine peninsula (Italy). — Stefano, G. di.
——, Senegambia.—Chautard, J.
——, Sicily.—Checchia-Rispoli, G., 2.
——, Switzerland.—Stehlin, H. G., 2.
——, Vence.—Guébhard, A., 3.
——. *See also* Tertiary, *&c.*
Eocystites.—Pack, F. J.
Eodevonaria.—Breger, C. L.
Eoliths, Belgium & France.—Dubois, A.; Rutot, A., 4.
——, Magdeburg.— Blanckenhorn, M., 1 & 3; Wiegers, F., 1–3 & 4.
——, origin of.—Hahne, H.; Rutot, A., 2; Warren, S. H., 1 & 2.
——, pseudo-.—Rutot, A., 6 & 9.
Eomyrus.—Eastman, C. R.
Eosiren.—Andrews, C. W.
Eotomaria.—Clarke, J. M., 7; Reed, F. R. C., 3.
Epidaurus (Greece).—Frech, F., 6.
Epidote.—Azéma, — ; Repossi, E. ; Zambonini, F., 5.
Episimilia.—Angelis d'Ossat, G. de.
Erato.—Cossmann. M., 3.
'Erebus' & 'Terror' Gulf (Antarctic).—Andersson, J. G.
Eribut boring (Hainault).—Cornet, J., 2.
Eriz (Berne).—Antenen, F.
Erlangen (Bavaria).—Neumeister, P.
Erosion, glacial.—Brunhes, J., 1 & 2.
——, subterranean water.—Martel, E. A., 10; Rovereto, G., 3; Schardt, H., 3.
——, surface.—Guenther, S.
—— terraces, river.—Capedar, G.
——. *See also* Earth-pillars, Karst phenomena, Coast-erosion, *&c.*
Erratic boulders, Ireland (N.E.). — Christen, R.
—— ——, Wienerwald.—Gœtzinger, G.
—— ——. *See also* Blocks & boulders.
Eruptive rocks, bituminous deposits &. —Lakes, A.
—— ——. *See also* Igneous rocks.
Ervilia.—Friedberg, W. S. von.
Eryma.—Harbort, E.
Erythræa (N.E. Africa).—Manasse, E., 3.
Erythrosuchus.—Broom, R.
Erzgebirge (Saxony).—Baumgærtel, B.; Sauer, A.
—— (Transylvania).—Palfy, M. von, 2; Papp, K. von, 3; Roth von Telegd, L., 1 & 2.
Esch-sur-l'Alzette (Luxemburg). — Blum, L.
Eschara.—Brydone, R. M.
Escragnolles (Var).—Hitzel, E.; Kilian, W., 2.
Eskdale (Lake District).—Marr, J. E., 2.
Eskers, Indiana.—MacBeth, W. A.
——. *See also* Moraines, *&c.*
Esmeralda Co. (Nev.).—Spurr, J. E., 4.
Espinhaço, Serra do (Brazil).—Derby, O. A., 2.
Essenrode (Brunswick). — Stolley, E., 9.
Essequibo R. (British Guiana).—Harrison, J. B., 1–4.
Essex.—Dymond, T. S.; Reader, F. W.; Salter, A. E., 1–3.
Essex Co. (Mass.).—Sears, J. H.
Essexite, New Hampshire.—Pirsson, L. V., 2.
Esthonia (Russia).—Lamanski, V. V.
Estuarine deposits, Humber. — Petch, T.
—— ——, precipitation of.—Reade, T. M., 3.
Etching, iron, &c.—Preston, H. L.
——. *See also* Crystals.
Ethra.—Pâquier, V., 2.
Etoblattina.—Agnus, A. N.
Eubleptus & *Eucœnus.* — Handlirsch, A., 3.
Eucythere.—Cappelli, G. B.
Euganean Hills (Italy).—Billows, E.; Cornu, F.; Giani, A.; Stark, M.
Eugyra.—Angelis d'Ossat, G. de.
Eumetria.—Vaughan, A.
Euomphalus.—Clarke, J. M., 7; Vinassa de Regny, P., 6.
Euphemus.—Frech, F., 7.
Euphotide, Apuan Alps.—Aloisi, P.
Europe, drift of Northern.—Lamplugh, G. W.
Eurypterus.—Seemann, F.
Eurytænia & *Eurythmopteryx.*—Handlirsch, A., 3.
Euskelosaurus.—Huene, F. von, 3.
Eutritonium.—Cossmann, M., 3.
Eutypomys.—Matthew, W. D.
Evercreech (Somerset).—Richardson, L., 2.
Évise (Corsica).—Deprat, J., 3.
Evolution, earth's.—Hutton, F. W.
——, geology &.—Lobley, J. L.
——, palæontology &. — Abel, O.; Kemna, A.
——, plant (fossil).—Krašan, F.
Exelissa.—Cossmann, M.
Exhibition, Nürnberg, 1906.—Friz, O.
Exochomylacris.—Handlirsch, A., 3.
Exogyra.—Dawkins, C. G. E.; Krumbeck, L.

Facetted pebbles, Netherlands Quaternary.—Dubois, E., 2.
Fachingen a. d. Lahn (Hesse).—Hatzfeld, C.
Facset (Transylvania).—Kadić, O.
Fadalto (Venetia).—Toniola, R. A., 2.
Færöe Is.—Currie, J., 1 & 3.
Fahlore.—*See* Tetrahedrite.
Fairbanks (Alaska).—Prindle, L. M.
Fairhaven (Alaska).—Moffit, F. H.
Falaise (Normandy).—Bigot, A.
Falbygden (Gothland).—Post, L. von, 2.
Falkland Islands (S. Atlantic).—Nathorst, A. G.; Newton, E. T.
Falköping (Gothland).—*See* Sweden, Geol. Surv.
Famennian, Liége.—Fourmarier, P., 3.
Farley Down (Hants).—Jukes-Browne, A. J.
Farnesina (Rome).—Cappelli, G. B.; Napoli, F.; Verri, A.
Farrar Basin (Inverness).—Peach, B. N., 4.
Fasciolaria.—Whitfield, R. P., 3.
Fassa Valley (Tyrol).—Tacconi, E.
Faucille, La (Burgundy).—Lee, G. W.
Fault, Cusworth post-Permian.—Culpin, H.
—— -fissure, Ingleborough.—Broderick, H.
Faults, Australasian.—David, T. W. E., 4.
——, Charleroi Basin.—Lohest, M., 2.
——, Glarus.—Heim, A., 1 & 4.
——, Poitou.—Welsch, J., 2.
——, strength of rocks &.—Anderson, E. M.
——, Uri.—Abrenz, P.
——, Westphalia.—Stille, H., 5.
Faunus.—Icke, H.
Favia.—Gregory, J. W., 3.
Fayette Co. (Iowa).—Savage, T. E., 2.
Fayûm (Egypt).—Andrews, C. W.
Fehmarn I. (Baltic).—Gagel, C., 11.
Felis.—Scharff, R. F., 2.
Felsögáld, &c.—*See* Gáld, Upper, *&c.*
Felspar-crystals, Cornish granite. — Elsden, J. V.
Felspars, determination of.—Becke, F., 5; Wright, F. E.
——, German E. Africa.—Spencer, G. F. H.
——, reactions of.—Cornu, F., 5.
——, schists, &.—Becke, F., 3.
——, sericite with.—Benedicks, C., 2.
——. *See also* Albite, *&c.*
Felsite, Sgùrr of Eigg.—Harker, A., 13.
Felsitic agglomerate, Charnwood Forest. —Bennett, F. W., 3; Stracey, B.
Fenestella.—Hennig, A.
Ferentillo (Umbria).—Lotti, B., 2.
Ferns, history of.—Arber, E. A. N., 2.
Fez (Morocco).—Brives, A., 3.
Fichtelgebirge (Bavaria). — Luczizky, W.; Sauer, A.; Schmidt, A.
Ficula.—Oppenheim, P.
Fier, Val de (Savoy).—Deslarmes, J.
Fife (Scotland).—Crampton, C. B.
Fiji Is. (Pacific).—Brown, G.; Chapman, F., 6.
Finchley (Middlesex).—Young, A. C.
Finger-Lake Region (N.Y.).—Tarr, R. S., 3.
Finland.—Borg, W.; Deecke, W., 3; Frosterus, B.; Jakovlev, S. A.; Ramsay, W., 1–5; Rosberg, J. E.; Sederholm, J. J.; Sundell, I. G.; Wahl, W.
Fire, building-stones &. — Baldwin-Wiseman, W. R., 3.
Firket, A., *Obit*.—*See* Forir, H.
Fish-bed, Cheadle Coalfield.—Ward, J., 2.
Fisher's I. (N.Y.).—Fuller, M. L.
Fishes, Bohemian fossil.—Bayer, F.
——, Carboniferous.—Hind, W.; Traquair, R. H.; Ward, J., 2; Wellburn, E. D.; Woodward, A. S., 3 & 5.
——, classification of fossil.—Dollo, J., 2.
——, Cretaceous.—Foureau, F.; Hennig, E.; Simionescŭ, I.
——, Devonian.—Eastman, C. R., 2; Hussakof, L., 1 & 2; Traquair, R. H., 2.
——, fossil and S. African recent.—Boulenger, G. A.
——, Jurassic.—Hennig, E.; Jækel, O., 2; Woodward, A. S., 1 & 8.
——, otolites of.—Bassoli, G. G.
——, Permian.—Jækel, O., 2.
——, Silurian.—Chapman, F., 3.
——, study of fossil.—Woodward, A. S., 6.
——, Tertiary.—Delheid, E.; Eastman, C. R.; Hennig, E.; Schubert, O., 4; Stolley, E., 11.
——, Triassic.—Abel, O., 4.
Fissure-veins.—*See* Veins.
Fissurella.—Cossmann, M., 3; Oppenheim, P.
Fjords, New Zealand.—Andrews, E. C., 2 & 3.
Flanders.—Andrimont, R. d', 1 & 2; Mourlon, M., 4; Simoens, G., 4.
Flemingites.—Hyatt, A.
Flinders (Victoria).—Pritchard, G. B., 3 & 4.
Flint-flakes.—Stanley, W. F.
——, formation of.—Williams, T. R.
—— implements.—*See* Implements.
—— zones, Alpes-Maritimes.—Guébhard, A., 4.
Flintshire.—Hind, W., 4; Terry, H. L.; Traquair, R. H.
Florencite.—Hussak, E., 5.
Florissant (Colo.).—Cockerell, T. D. A.
Flow, folds &.—Sollas, W. J.
Fluorspar.—Buttgenbach, H., 3; Fermor, L. L., 2; Krahmann, M.; Morse, H. W.; Ulrich, E. O., 2.
Flying fishes, Triassic.—Abel, O., 4.
Flysch, Switzerland.—Hœk, H., 2; Jaccard, F.; Petrascheck, W., 3.
Föglö (Finland).—Wahl, W.

Foinica (Bosnia).—Mauritz, B.
Folding of strata by frozen streams.—Sardeson, F. W.
Folds, Algeria & Tunis.—Termier, P., 4.
——, Alpes-Maritimes.—Guébhard, A., 7.
——, Alpine.—Simoens, G., 2; Steinmann, G., 5.
——, Appalachian.—Keith, A.
——, Australasian.—David, T. W. E., 4.
——, Calabria.—Lugeon, M., 4.
——, Dauphiné.—Kilian, W.
——, Greece.—Négris, P., 2 & 3.
——, Poitou.—Welch, J., 2.
——, Pyrenees.—Bertrand, L.
——, recumbent, produced as the result of flow.—Sollas, W. J.
——, St. Étienne.—Termier, P., 5.
——, Sicily.—Lugeon, M., 2–4.
——, Switzerland. — Ficker, H. von; Heim, A., 4; Jaccard, H. von; Lugeon, M.
——, Tygerberg reverse.—Sandberg, C. G. S.
——, Ubaye.—Haug, E.
——. *See also* Mountains, *&c.*
Folkestone Beds, Surrey.—Herries, R. S., 2.
Footprints, Permian.—Hickling, G.; Pabst, W.
——, Triassic.—Lomas, J.
Foramina of the reptilian lower jaw.—Huene, F. von, 2.
Foraminifera, Carboniferous.—Karpinski, A., 2.
——, Cretaceous.—Krumbeck, L.
——, Permo-Carboniferous.— Chapman, F., 5.
——, Quaternary. — Bullen, R. A.; Reade, T. M., 4.
——, Tertiary.—Bagg, R. M., Jun.; Checchia-Rispoli, G., 1, 3, & 4; Deprat, J.; Douvillé, H., 3 & 4; Fornasini, C.; Kemna, A., 2; Kilian, W., 3; Lemoine, P., 4; Liebus, A.; Manek, F.; Napoli, F.; Oswald, T.; Prever, P. L., 1 & 2; Sacco, F., 4; Schubert, R. J., 1 & 2; Schlumberger, C., 1 & 2; Silvestri, A., 1 & 2; Vredenburg, E., 4.
——, tests of.—Stromer, E.
——, Triassic.—Cole, G. A. J.
Forasest (Transylvania). — Schafarzik, F.
Forcett limestone-quarry (Yorks). — Teasdale, T.
Forest-Bed, Belgium.—Dubois, E.
——, Cromer.—Harmer, F. W.; Lorié, J., 2; Reid, C., 2.
——, Tegelen.—Dubois, E.; Harmer, F. W.; Lorié, J., 2.
Forest, petrified.—Ward, L. F.
Formations, correlation of Australian & Northern Hemisphere.—Hall, T. S.
Fort Bridger (Wy.).—Veatch, A. C.
—— Collins (Colo.).—Headden, W. P.
Fortuna (Spain).—Osann, A.
Fortunite, Spain.—Osann, A.
Fortymile District (Alaska).—Prindle, L. M.
Fossil-shells preserved in the interior of larger ones.—Kœnen, A. von, 4.
Fossilization, conditions of.—Hartzell, J. C.
Fouqué, F., *Obit.*—*See* Barrois, C., 5.
Foyaite-rocks, Tasmanian.—Paul, F. P.
Frameries (Hainault).—Lagrange, E.
Framont (Vosges).—Mueller, F. T.
France, central plateau, dislocations.—Haug, É.
——, Kimmeridgian.—Lemoine, P., 5.
——, tectonic faults, &c.—Jourdy, E.
——, Tertiary Edentata. — Ameghino, F., 2.
——. *See also* Languedoc, Picardy, *&c.*
Franché-Comté (France).—Drioton, C., 2; Girardot, A., 1 & 2.
Franconia (Germany).—Kœhne, W., 1 & 2.
Frank (Alberta).—Bell, R., 3.
Franklin Co. (Pa.).—Stose, G. W.
Frasnian, Namur.—Maillieux, E.
Frechiella.—Prinz, G., 3.
Freiburg i. Br. (Baden).—Steinmann, G., 2.
Freistadtl (Moravia).—Oppenheimer, J., 2.
Freiwaldau (Silesia).—Rosiwal, A.
French Antarctic Expedition.—Gourdon, E.
French Guinea (W. Africa).—Hébert, A.
Freuden Valley (Silesia).—Jahn, J. J.
Friedeberg (Silesia).—Rosiwal, A.
Frisian Is. (North Sea).—Geinitz, E.
Friuli district (Venetia).—Gortani, M., 3; Lorenzi, A.; Taramelli, T.
Fruska Gora (Hungary).—Pethœ, J.
Fulguraria.—Cossmann, M., 3.
Fulwell Hill (Durham).—Abbott, G.
Fumaroles, Vesuvius.—Lacroix, A., 9; Zambonini, F.
Fungia.—Vaughan, T. W., 2.
Fungidæ, classification of.—Vaughan, T. W.
Furgen Valley (Pennine Alps).—Stella, A.
Fusulina.—Douvillé, H., 4.
Fusus.—Ascher, E.; Cossmann, M., 3; Krumbeck, L.; Oppenheim, P.
Fyne, Loch (Argyll).—Hill, J. B., 2.

Gabbro, Ambon.—Verbeek, R. D. M.
——, Bavaria.—Bergt, W., 2.
——, Bohemia.—Bergt, W., 1 & 2.
——, British Columbia.—Daly, R. A.
——, Hesse.—Chelius, C.
——, Lapland.—Borg, W.
——, Transylvania.—Papp, K. von.
——, Urals.—Krasnopolski, A.
——, Washington (U.S.A.).—Daly, R. A., 2.
Gade Valley (Herts).—Lones, T. E.
Gadolinite, Sweden.—Chernik, G. P.
Gaisberg (Salzburg).—Fugger, E., 4.

Galapagos Is. (Pacific).—Agassiz, A.; Ameghino, F.
Gáld, Upper (Transylvania).—Roth von Telegd, L.
Galena, Alsace.—Ungemach, —.
——, Argentina.—Bodenbender, G.
——, crystals of.—Buttgenbach, H., 3.
——, Nevada.—Spurr, J. E., 2.
——, New South Wales.—Larcombe, C. O. G.
——, St. Gothard massif.—Mariani, E., 3.
——, Vesuvius.—Zambonini, F., 1 & 6.
Galicia (Austria). — Angermann, E.; Felix, J.; Friedberg, W. S. von, 1 & 2; Holobek, J.; Láska, W.; Michael, R.; Siemiradzki, J. von, 2.
Galla Country (Abyssinia).—Blundell, H. W.
Gallberg von Salzgitter (Hanover).—Prinz, G.
Galle (Ceylon).—Dunstan, W. R., 5.
Gallico Tunnel, Piedmont.—Sacco, F., 2.
Gallinuloides.—Loomis, F. B., 2.
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Gander R. (Newfoundland).—Millais, J. G.
Gangamopteris.—Chapman, F.
Gangetic plain, Bengal.—Molony, E.
Gap (Dauphiné).—Lévy, Aug. M.; *see also* FRANCE, Serv. géol.
Gard (France).—Mazauric, F., 2 & 3; Pellat, E., 1 & 2.
Gardelegen (Magdeburg). — Wiegers, F., 4.
Gardon, (Languedoc).—Masauric, F.
Garéoult (Provence).—Kilian, W., 6.
Gargano, Penin. (Italy).—Fucini, A., 2.
Gari.—Pethœ, J.
Garnet, yttrioniferous.—Benedicks, C.
Garzonia.—Sinclair, W. J.
Gas (natural), Cape Colony.—Young, A.
—— (—), carbonic acid. — Delkeskamp, R.
—— (—), Queensland artesian water with. — Henderson, J. B.; *see also* UNITED STATES, Min. Resources.
Gas-holes, Ætna lavas.—Platania, G.
Gascony (France). — Douvillé, H.; Liebus, A.
Gases, enclosed in coal.—Bedson, P. P.
——, mineral water.—Moureu, C.
——, Rumanian rock-salt & mud-volcanoes.—Costachescŭ, N.
Gassino (Piedmont).—Prever, P. L., 2.
Gasteropoda, Cambrian.—Lorenz, T., 2.
——, Carboniferous. — Frech, F., 7; Hind, W.; Malaquin, A.
——, Cretaceous.—Ascher, E.; Choffat, P.; Harbort, E.; Icke, H.; Krumbeck, L.; Pethœ, J.; Replin, J.
——, Devonian.—Clarke, J. M., 5 & 6; Schmidt, W. E.
——, Jurassic.—Cossmann, M.; Cragin, F. W.; Schmidt, M.; Seidlitz, W. von.
Gasteropoda, Ordovician.—Reed, F. R. C., 3.
——, Permo-Triassic.—Gortani, M., 5.
——, Quaternary. — Bullen, R. A.; Dautzenberg, P.; Kormos, T.
——, Silurian. — Clarke, J. M., 7; Donald, J.; Whiteaves, J. F.
——, systematic determination of fossil. —Dacqué, E.
——, Tertiary.—Andrussov, N.; Chautard, J.; Cossmann, M., 3; Dainelli, G.; Friedberg, W. S. von; Gutzwiller, A.; Jukovski, E., 2; Leriche, M., 2; Newton, R. B., 2; Oppenheim, P., 1 & 2; Pritchard, G. B., 5; Seninski, K., 2; Whitfield, R. P., 3.
Gasteropoda - marls, Ingramsdorf. — Guerich, G.
Gastrochœna.—Cossmann, M., 3.
Gâtine massif (Poitou). — Welsch, J., 1–4.
Gault, Algeria.—Blayac, J.
——, Brunswick. — Stolley, E., 8; Wollemann, A., 2.
——, Gard.—Pellat, E., 1 & 2.
——. *See also* Cretaceous.
Gauss Berg (Kaiser Wilhelm II. Land). —Drygalski, E. von, 2.
Gazella.—Hinton, M. A. C.
Gedinnian, Namur.—Fourmarier, P., 2.
Geikielite.—Crook, T., 2.
Geisingen (Baden).—Becker, E., 2.
Gellivaare (Sweden).—Stutzer, O., 3.
Gems.—*See* Precious stones, Minerals, *&c.*
Genesis, geology &.—Irving, A., 2.
Geniohyus.—Andrews, C. W.
Genoa (Liguria).—Figari, L.; Rovereto, G., 2; Sacco, F., 3.
Genyornis.—Stirling, E. C.
Geodes, Simplon tunnel.—Brillouin, M.
Geographical cycle, complications of the.—Davis, W. M., 4.
Geography, geology &. — Davis, W. M., 8.
——, origin of Scottish.—Geikie, Sir A., 3.
——, physical.—Douxami, H., 2 & 8.
——, seismological.—Montessus de Ballore, F. de.
——. *See also* INTERNAT. CAT. SCI. LIT.
Geological Congress, Mexico.—Anon., 31.
—— formations, nomenclature, Ohio.—Prosser, C. S.
—— hints for travellers. — Meunier, S., 5.
—— maps.—Brunton, D. W.
—— Museum, Cairo.—Hume, W. F., 2.
—— sketching.—Lakes, A., 6.
—— Society, medals, &c.—Marr, J. E.
—— ——, France, Italian excursion.—Franchi, S., 2; Sacco, F., 3.
—— ——, Servia.—Stevanović, S.
—— Societies, aims of local.—Forsyth, D.
—— Survey, Alsace-Lorraine.—Benecke, E. W., 1 & 2.

Geological Survey, Austria.—Tietze, E. E. A., 2.
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—— ——, Cape Colony.—*See* Cape of Good Hope.
—— ——, cost of European & American.—Jentzsch, A., 7.
—— ——, Egypt.—Lyons, H. G.
—— ——, England & Wales.—*See also* Great Britain, *&c.*; Barrow, G.; Gibson, W.; Pocock, T. I.; Reid, C.; Strahan, A.; Ussher, W. A. E., 2; Woodward, H. B., 1, 3, & 4.
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—— ——, Great Britain. *See* Great Britain.
—— ——, Hesse.—Lepsius, R., 2.
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—— ——, ——, chemical laboratory analyses.—Emszt, K., 1 & 2.
—— ——, ——. *See also* Soils, *&c.*
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—— ——, New Jersey. — Kuemmel, H. B.
—— ——, New South Wales. — *See* New South Wales, Dep. Mines.
—— ——, Transvaal. — Kynaston, H., 2, 4, & 5.
—— ——, United Kingdom. — *See* Great Britain.
—— ——, United States. — Walcott, C. D.
—— ——, Victoria. — *See* Victoria, Dep. Mines.
—— ——, Western Australia. — Maitland, A. G.; *see also* W. Australia, Dep. Mines, 1 & 2.
—— surveying.—Kemp, J. F.; Lakes, A., 3.
—— text-books.—Chamberlin, T. C., 3; Cole, G. A. J., 3; Frech, F.; Spurr, J. E.; Suess, E., 2; Walther, J.
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——, experimental.—Lohest, M., 2.
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——, Genesis &.—Irving, A., 2.
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——, Ireland, 1903–1905. — Seymour, H. J.
——, isostasy &.—Haid, M.; Hayford, J. F.; *see also* Gravity.
——, military uses of.—Poitevin, —, 2.
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——, text-books of.—*See* Geological.
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Gerapompus, Geraroides, & Gerarus.—Handlirsch, A., 3.
German Antarctic Expedition, 1901–3.—Drygalski, E. von, 2.
—— East Africa.—Hecker, O.; Lacroix, A., 10; Schmeisser, C.; Spencer, G. F. H.
—— New Guinea (Pacific). — Haupt, O.; Meigen, W.
—— West & South-West Africa.—Schmeisser, C.; Schneider, O.
Germany, colonies of.—Schmeisser, C.
—— (N.), inland dunes.—Lehmann, F. W. P.
—— (N.W.). — Stolley, E.; *see also* Hanover, *&c.*
—— (S.W.), structure of. — Regelmann, C.
——, Tertiary Edentata. — Ameghino, F., 2.
——, useful minerals.—Bruhns, W.
——. *See also* Gravels, Moraines, Potash, Prussia, Quaternary, *&c.*
Gerringong (N.S.W.).—Harper, L. F.
Gervillia.—Choffat, P.; Cragin, F. W.; Gortani, M., 5; Newton, R. B.; Pethœ, J.

Gesso Valley (Piedmont). — Roccali, A., 2.
Geysers, New Zealand.—Bell, J. M,
——, sources of waters of. — Maclaren, J. M.
Ghazipur (Bengal).—Molony, E.
Ghlin (Hainault).—Cornet, J., 3.
'Giant's Kettles,' Gothland, &c.—Hamberg, A., 2.
Giardinello (Sicily).—Stefano, G. di, 2.
Gigantophis.—Andrews, C. W.
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Girvan (Ayrshire).—Reed, F. R. C., 4.
Glacial aspect of Ben Nevis (recent).—Gatty, V. H.
—— deposits, Anglesey. — Edwards, W.
—— ——, Belgium.—Rutot, A., 5.
—— ——, East Anglia. — Harmer, F. W., 3.
—— ——, Gothland.—Holst, N. O.
—— ——, Grisons.—Hœk, H.
—— ——, Hanover. — Bode, A.; Martin, J.; Schucht, F.
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—— ——, Massachusetts.—Sears, J. H.
—— ——, Mecklenburg.—Gagel, C., 6; Siegert, L.
—— ——, Prussia. — Deecke, W., 2; Gagel, C., 4 & 6; Jentzsch, A., 2 & 6; Linstow, O. von, 2.
—— ——, Schleswig-Holstein. — Gagel, C., 4; Wolff, W., 2.
—— ——, Scotland. — Geikie, J.; Jamieson, T. F., 2 & 3.
—— ——, Thuringia. — Picard, E.; Wuest, E.
—— ——, Yorkshire.—Sewell, J. T.
—— erosion.—Brunhes, J., 2; Fairchild, H. L.
—— ice-caps.—*See* Ice.
—— lake, Pangong.—Huntington, E.
—— lakes, Cleveland Hills.—Kendall, P. F.
—— periods, man and the.—Reinhardt, L.; Sollas, W. J., 2.
—— ——, origin of. — Jækel, O., 4; Penck, A.; Pohlig, H.; Schellwien, E.; Schwarz, E. H. L., 3; Sutcliffe, G.
—— ——, Scottish peat-bogs &. — Lewis, F. J., 1 & 2.
—— ——, thickness of ice &.—Lamplugh, G. W.
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Glaciated surfaces.—Gilbert, G. K.
Glaciation, Aberdeenshire. — Jamieson, T. F., 3.
——, Abruzzo.—Vinassa de Regny, P., 2.
——, Alps.—Penck, A., 2.
——, Argyll.—Hill, J. B., 2.
——, Arizona.—Merrill, F. J. H., 2.
——, Australasian Permo-Carboniferous. —David, T. W. E., 3.
——, Baden.—Huber, A.
——, Belluno district.—Toniolo, R. A., 2.
Glaciation, Berne.—Antenen, F.
——, Canadian Rocky Mts.—Sherzer, W. H.
——, Cape Colony, Permo-Carboniferous. —Sjögren, O., 4; Young, R. B.
——, Carpathians.—Martonne, E. de; Romer, E.
——, Colorado.—Davis, W. M., 1 & 2.
——, earth's surface.—Gugenhan, M.
——, Iceland.—Ferguson, H. G.; Knebel, W. von; Thoroddsen, Th.
——, Ireland (N.E.).—Christen, R.
——, Lebanon District.—Wright, G. F.
——, Massachusetts.—Clapp, F. G.
——, Mexico.—McGee, W. J.; Merrill, F. J. H., 2.
——, mountain.—Davis, W. M., 7.
——, New England.—Fuller, M. L., 2.
——, New York.—Rich, J. L.; Tarr, R. S., 3.
——, New Zealand.—Andrews, E. C., 2 & 3.
——, Norrbotten.—Gavelin, A.
——, Prussia.—Linstow, O. von, 2.
——, Quebec.—Wilson, A. W. G.
——, Scania.—Bobeck, O.; Douxami, H.
——, Styria.—Aigner, A.
——, Tasmania.—David, T. W. E., 3.
——, Transvaal, Permo-Carboniferous.—Mellor, E. T.
——, Wisconsin.—Alden, W. C., 1 & 2.
——, Würtemberg.—Gugenhan, M., 2.
——, Yorkshire.—Carter, W. L., 2.
Glacier-erosion.—Brunhes, J.
Glaciers, Alaska.—Brooks, A. H., 3.
——, Baltistan.—Workman, F. B.
——, Dauphiné.—Jacob, C., 2; Lory, P.
——, Himalayas.—Œstreich, K.
——, Norway.—Œyen, P. A.; Rekstad, J., 2.
——, origin of.—Hamberg, A.
——, Switzerland.—Penck, A., 2.
——, variations of.—Belloc, É.; Forel, F. A.; Reid, H. F., 1–3.
Glamorgan.—Richardson, L., 3.
Glan R. (Rh.-Bavaria).—Burckhardt, K.; Duell, E.; Reis, O. M., 3.
Glaphyrophlebia.—Handlirsch, A., 3.
Glarus (Switzerland).—Heim, A., 1, 2, & 4.
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Glatz (Silesia).—Flegel, K.
Glauconite & glauconitic deposits.—Collet, L. W., 3.
——, iron &.—Cayeux, L., 6.
Glauconitic oceanic concretions.—Collet, L. W.
Glaucophane.—Termier, P., 3.
—— -schists, California.—Murgoci, G. M., 3.
—— ——, Switzerland.—Grubenmann, U.
Glencroe, Pass of (Argyll).—Hill, J. B., 2.
Glendonite, pseudo-.—David, T. W. E., 2.
Glensluan Schists, Argyll.—Hill, J. B., 2.
Glindow-Lake peat (Brandenburg). — Gagel, C., 2.
Globigerina.—Bullen, R. A.
—— -ooze, Pacific.—Flint, J. M.

Glokova (Greece).—Négris, P., 5.
Glossocarpellites.—Perkins, G. H.
Glossograptus.—Ruedemann, R.
Glossopteris.—Arber, E. A. N.
Gloucestershire.—Buckman, S. S., 2 & 5; Paris, E. T.; Richardson, L., 4–6; Upton, C.; Vaughan, A.; Winwood, H. H., 2.
Glurns (Tyrol).—Hammer, W.
Gmelinite, Russia.—Fersmann, A.
Gneiss, Aar massif.—Sauer, A., 3.
——, algæ in.—Ahnert, E. von.
——, Baden.—Rosenbusch, H.
——, Brazil.—Evans, J. W., 2.
——, Bundelkhand decomposed.—Silberrad, C. A.
——, classification of.—Harker, A., 4.
——, Engadin. — Schiller, W.; Zœppritz, K.
——, European fundamental.—Sauer, A.
——, Finland.—Frosterus, B.; Ramsay, W., 4.
——, Graian Alps.—Stella, A.
——, Greenland.—Belowski, M.
—— inclusions in granite.—Roccati, A., 4.
——, Lapland.—Borg, W.
——, Liguria.—Rosati, A.
——, Limpopo R.—Henderson, J. McC.; Sandberg, C. G. S., 2; Voit, F. W., 1 & 2.
——, Maryland.—Mathews, E. B.
——, Moravia.—Suess, F. E., 3.
——, Mysore.—Slater, H. K.; Wetherell, E. W., 2.
——, Ortler Alp.—Hammer, W.
——, Piedmont. — Novarese, V., 2; Preiswerk, H.
——, Rhætian Alps.—Seidlitz, W. von.
——, structure of.—Weinschenk, E.
——, Ticino, so-called.—Klemm, G., 2.
Gneissic schists, crumpling of Alpine.—Sacco, F.
Gobræus.—Cossmann, M., 3.
Godavari R. (India).—Pilgrim, G. E.
Godrevy (Cornwall).—Whitley, D. G.
Goenoeng Nona (Ambon I.).—Verbeek, R. D. M.
Gokteik Gorge, natural bridge (Shan States).—La Touche, T. D., 2.
Gold, Abyssinia.—Blundell, H. W.
——, Alaska. — Mendenhall, W. C.; Moffit, F. H.; Prindle, L. M.; Purington, C. W.; Spencer, A. C., 2 & 3.
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——, Arizona.—Reid, J. A.
——, Asia Minor.—Freise, F.
——, Borneo.—Geikie, J. S.; Hamilton, W.; Scrutton, T. C.
——, British Columbia.—Atkin, A. J. B.; *see also* British Columbia.
——, Brazil.—Pearson, H.
——, California.—Gunther, C. G., 2.
——, Ceylon.—Coomáraswámy, A. K., 2.
——, Chile.—Cortes, A. O.; Herrmann, A.; San Roman, F. J.
——, Colorado. — Gunther, C. G.; Purington, C. W., 2.
Gold, Congo Free State.—Buttgenbach, H., 5.
——, Germany.—Bruhns, W.
——, Hungary.—Papp, K. von, 3.
——, India.—Holland, T. H., 2; La Touche, T. D., 3; Maclaren, J. M., 3.
——, Japan.—Weigall, A. R.
——, Klondyke.—Tyrrell, J. B.
——, Queensland.—Dunstan, B.
——, Madagascar.—Degoutin, —; Gascuel, L.
——, Manicaland.—Couyat, J., 2.
——, Mashonaland.—Beck, R., 4.
——, Meurthe-et-Moselle.—Laur, F., 2.
——, Mexico.—Warwick, A. W.
——, Mysore.—Sambasiva Iyer, V. S.
——, Natal.—Gray, C. J., 2.
——, Nevada.—Collins, E. A.; Spurr, J. E., 2 & 5.
——, New South Wales.—Andrews, E. C.; Hall, W. H.; Jaquet, J. B.; Macdonald, W. F.; *see also* New South Wales, Dep. Mines.
——, Nova Scotia.—Bell, R., 3 & 4; Gilpin, E. (*fil.*).
——, origin of placer and vein.—Lovewell, J. T.
——, Otago.—Boult, C. N.
——, Perak.—*See* Perak State, Mines Dep.
——, Peru.—Pfluecker, L.
——, Rhodesia.—Gregory, J. W., 5 & 6.
——, Siberia.—Korotkov, —; Maier, E.; Samoïlov, J., 2; Thiess, F.
——, Silesia.—Rosiwal, A.
——, Tasmania.—Twelvetrees, W. H., 6; *see also* Tasmania, Dep. Mines, 1–5.
——, Tierra del Fuego.—Brain, J., 1 & 2.
——, United States. — *See* United States, Min. Resources.
——, Victoria (Austral.). — Ferguson, W. H.; Jenkins, H. C.; Kitson, A. E.; Gregory, J. W., 8; *see also* Victoria, Dep. Mines.
——, Western Australia.—Campbell, W. D.; Gibson, C. G.; Jackson, C. F. V.; Lindgren, W., 3; Maitland, A. G., 1–4; Woodward, H. P.; *see also* W. Australia, Dep. Mines, 1 & 2.
——, Zululand.—Gray, C. J.
Gold-crystals, Aosta Valley. — Millosevich, F.
Goldfield (Nev.).—Collins, E. A.
Gömör Co. (Hungary).—Acker, V. Zimányi, K.
Goniatites.—Carpentier, A., 3.
Goniograptus.—Ruedemann, R.
Goniomya.—Newton, R. B.
Goniomylacris.—Handlirsch, A., 3.
Goniopholis.—Hooley, R. W.
Goniopteris.—Vinassa de Regny, P., 6.
Goodchild, J. G., *Obit.*—*See* Anon., 8.
Goodmandale (Yorks).—Stather, J. W., 2.
Goose Bank (N.F.).—Howley, J. P.
Goring Gap.—Harmer, F. W., 4.

Goritz (Austria).—Stach, G.
Gosau (Tyrol).—Petrascheck, W., 3.
Göteborg (Gothland).—Munthe, H., 1 & 2.
Gotha (Germany).—Amthor, R.
Gothland (Sweden).—Anon., 32; Halle, T. G.; Hamberg, A., 2; Hennig, A.; Holst, N. O.; Munthe, H., 1, 2, & 4; Post, L. von, 2; Tœrnebohm, A. E., 2; Tœrnquist, S. L.; Witte, H.; *see also* SWEDEN, Geol. Surv., 1 & 2.
Göttingen (Hanover).—Kœnen, A. von, 2.
Gough I. (S. Atlantic).—Campbell, R.; Pirie, J. H. H.
Gourbesville (Normandy).—Dollfus, G. F., 5.
Graham Land (Antarctic).—Andersson, J. G.; Gourdon, E.
Grahamstown Museum (Cape Colony). —*See* ALBANY (Cape Colony).
Granada (Spain).—Hœrnes, R.
Granby (Mo.).—Buckley, E. R.
Grand-Manil (Namur).—Mathieu, É.
Grängesberg (Svealand).—Sjœgren, O., 6.
Granite, Ambon.—Verbeek, R. D. M.
——, Apuan Alps.—Aloisi, P.
——, Argentina.—Bodenbender, G.
——, Bavaria.—Luczizky, W.
——, Brocken massif. — Erdmannsdœrffer, O. H.
——, Brazil.—Evans, J. W., 2.
——, Cascade Mts.—Daly, R. A., 2.
——, Cornwall.—Elsden, J. V.
——, dome-margins.—Cole, G. A. J., 1 & 2.
——, Finland.—Frosterus, B.
——, Gothland black.—Anon., 32.
——, graphic, composition of.—Bygdén, A.
——, Greenland.—Belowski, M.
——, inclusions in.—Gilbert, G. K., 3; Roccati, A., 4.
——, Lapland.—Borg, W.
——, Lombardy.—Repossi, E.
——, New South Wales.—Andrews, E. C.
——, Perm. — Lœwinson-Lessing, F., 4.
——, plasticity of.—Adams, F. D., 2 & 3.
——, Purcell Mts.—Daly, R. A.
——, Rhenish Bavaria. — Burckhardt, K.; Duell, E.; Reis, O. M., 3.
——, Riesengebirge.—Milch, L.
——, Scilly Is.—Barrow, G.
——, Swedish.—Holmquist, P. J.
——, Valais.—Duparc, L.
——, W. Australia.—Lindgren, W., 3.
Granitic laccolites, Aar massif.—Baltzer, A.
—— margin, Buttermere laccolite. — Rastall, R. H.
—— porphyry, Brazil.—Evans, J. W., 2.
—— ——, druse-minerals, Saxony. — Hess von Wichdorff, H.
—— rocks, Corsica.—Deprat, J., 3.
Granitization of Huronian schists.—Bell, J. M., 2.
Granodiorite, Cascade Mts.—Daly, R. A., 2.
Granophyre, Cumberland.—Rastall, R. H.
——, Mull (I. of).—Smythe, J. A.
Granulite, Bengal.—Fermor, L. L., 5.
——, Brazil.—Evans, J. W., 2.
Graphic granite, composition of. — Bygdén, A.
—— iron, meteorite with.—Tassin, W., 2.
—— schists, Britanny.—Pussenot, —.
Graphite, Ceylon.—Coomáraswámy, A. K., 2; *see also* UNITED STATES, Min. Resources.
—— crystals.—Kœnigsberger, J., 3.
—— schists, Argyll.—Hill, J. B., 2.
Graptolites, Silurian.—Barrois, C., 3; Elles, G. L., 2; Foureau, F.; Ruedemann, R.; Tœrnquist, S. L.; Wood, E. M. R., 2.
——, zoological system &.—Schepotieff, A.
Graptolitic zones, Caermarthenshire.—Evans, D. C.
—— ——, Tarannon.—Wood, E. M. R.
Graslitz (Bohemia).—Baumgærtel, B.
Grass Creek (Utah).—Lakes, A., 5.
Grasse (Alpes-Maritimes).—Goby, P.
Gratz (Styria).—Fabian, F.; Heritsch, F.; Vacek, M.
Gravels, Alaska.—Purington, C. W.
——, Alpes-Maritimes.—Guébhard, A., 5.
——, Anhalt.—Cornu, F., 2.
——, Berkshire.—Monckton, H. W.
——, Bighorn Mts. & Black Hills (U.S.A.).—Mansfield, G. R.
——, Essex.—Salter, A. E., 2 & 3.
——, Finland Archæan.—Deecke, W., 3.
——, Hainault & Picardy.—Rutot, A.
——, Hanover.—Stappenbeck, R., 2.
——, Magdeburg.—Blanckenhorn, M., 1 & 3; Wiegers, F., 1–3.
——, Mitcham.—Hogg, A. J., 2.
——, Prussia.—Philippi, E., 2.
——, Reading Beds with quartzose.—White, H. J. O., 2.
——, Schleswig-Holstein. — Gagel, C.; Stolley, E., 1 & 2.
——, Sylt I.—Petersen, J.
Graveley (Huntingdon).—Fisher, O., 3.
Gravity, Baden.—Haid, M.
——, geological problems &.—Hayford, J. F.
——, Johannesburg.—Lehfeldt, R. A.
——. *See also* Isostasy.
Great Britain, coal-supplies.—Greenwell, A.; *see also* GREAT BRITAIN, Geol. Surv. & Home Office.
Greece.—Eginitis, D.; Frech, F., 6 & 8; Négris, P., 2–5; Philippson, A.; Renz, C., 1, 2, & 4–6.
Green Mts. (Vt.).—Dale, T. N.
Greenland.—Belowski, M.; Bœggild, O. B.; Jensen, A. S.; *see also* GREENLAND, Komm. for Ledelsen, *&c.*

Greensand, Lower, Drôme.—Jacob, C.
——, ——, Oxford.—Dawkins, C. G. E.
——, ——, Paris Basin.—Peron, A., 2.
——, ——. *See also* Aptian, Cretaceous, *&c.*
Grenzach (Basel).—Greppin, E.
Gresten Beds, Austria.—Trauth, F.
Grewia.—Gutzwiller, A.
Griffithides.—Frech, F., 7.
Griqua Town & Griqua-Town Series, Cape Colony.—Rogers, A. W., 2.
Griqualand, West (Cape Colony). — Rogers, A. W., 2; Young, R. B.
Grisons (Switzerland). — Hœk, H. ; Schiller, W. ; Zœppritz, K.
Gröden sandstone, Tyrol.—Ascher, E.
Groete Creek (British Guiana).—Harrison, J. B.
Grorudite.—Karpinski, A.
Grosnii (Archangel).—Ivanov, A. P.
Grotto di Castro (Lago di Bolsena).—Orzi, D.
Gryphæa.—Pethœ, J.
Guanajuato (Mex.).—Bromly, A. H.
Guapo (Trinidad).—Craig, E. H. C., 5.
Guayaguayare (Trinidad).—Craig, E. H. C., 4.
Guaynopita (Mex.).—Hovey, E. O., 4.
Gubelinski Mt. (Ural). — Lœwinson-Lessing, F., 7.
Gudow (Prussia).—Gagel, C., 9.
Guebhardia.—Cossmann, M.
Guelph Formation, New York.—Clarke, J. M., 7.
—— ——, Ontario.—Whiteaves, J. F., 4.
Guinea, French.—*See* French Guinea.
Guipuzcoa (Spain).—Launay, L. de.
Gullane Hill (Haddington).— Young, B. R.
Gulo.—Hamy, E. T.
Güntenstall (St. Gall).—Schmidt, C., 2.
Gymnotropites.—Hyatt, A.
Gypsum, Essex soils.—Dymond, T. S.
——, Hainault.—Mathieu, E., 2.
——, India.—Fermor, L. L., 5; Holland, T. H., 2.
——, Sussex.—Whitaker, W.
——, Vesuvian dust.—Brauns, R., 4.
——. *See also* United States, Min. Resources.
Gyracanthides.—Woodward, A. S., 5.
Gyroceras.—Clarke, J. M., 7.
Gyrodus.—Hennig, E.
Gyrolite.—Cornu, F., 3; Hussak, E., 2.
Gyrophlebia.—Handlirsch, A., 3.
Gyropleura.—Pâquier, V., 2.
Gyulafehérvár (Transylvania).—Nopcsa, F., Baron (*fil.*); Roth von Telegd, L., 2.

Haddingtonshire (Scotland).—Bailey, E. B., 2; Crampton, C. B.; Young, B. R.; *see also* Lothians.
Hadentomum.—Handlirsch, A., 3.
Hadleigh (Essex).—Salter, A. E., 3.
Hæmatite, Binn Valley.—Harre, R. W.
——, crystals of. — Baumhauer, H. ; Nicolau, T., 2.
——, Hesse.—Hatzfeld, C.
Hainault (Belgium).—Anon., 32; Cornet, J., 1-3, 5, & 6; Douxami, H., 6; Greindl, Baron L. ; Lohest, M. ; Munck, E. de; Rutot, A., 4; Simoens, G.
Haine R. (Belgium).—Cornet, J., 5.
Halimeda-deposits, New Hebrides, &c. —Chapman, F., 6.
Halle (Merseburg).—Siegert, L.
Halmariphus.—Sinclair, W. J.
Halobia.—Renz, C., 2.
Halorites.—Hyatt, A.
—— -limestone, Himalayas.—Diener, C., 3.
Hamburg (Germany).—Menzel, H., 2.
Hameln (Hanover).—Grupe, O.
Hamilton (Ont.).—Grant, C. C.
—— Group, Indiana.—Whitfield, R. P., 2.
Hamites.—Gussmann, —.
Hamlimite, Minas Geraes.—Hussak, E.
Hammam-R'hira (Algeria).—*See* R'hira Desert.
Hampshire. — Cripps, F. S.; Jukes-Browne, A. J.
Hanging valleys, Lake District.—Marr, J. E., 2; Russell, I. C.
—— ——, New Zealand.—Andrews, E. C., 2.
—— ——, Ticino.—Garwood, E. J.
Hanover (Germany).—Bode, A.; Gagel, C., 3; Grupe, O., 2; Kœnen, A. von, 1 & 2; Martin, J.; Menzel, H.; Prinz, G.; Schucht, F.; Stappenbeck, R., 2; Stille, H., 6; Wollemann, A., 3 & 4.
Hanság (Hungary).—László, G. von, 2.
Hapaloptera.—Handlirsch, A., 3.
Haploparia.—Borisyak, A.
Haplophragmium.—Chapman, F., 5.
Harbour Cone (Otago).—Boult, C. N.
Harlton (Cambridge).—Bullen, R. A., 2.
Harris, G. F., *Obit.*—*See* Anon., 9.
Harz Mts. (Germany).—Bode, A., 1 & 2; Erdmannsdœrffer, O. H.; Henkel, L.; Hornung, F.; Kaiser, E., 2; Koch, M.; Ochsenius, K.; Schleifenbaum, W.
Hastings (Sussex).—Palmer, P. H.
Hatcher, J. B., *Obit.*—*See* Scott, W. B.
Hatfield (Herts).—Monckton, H. W., 2.
Hauericeras.—Wegner, T.
Hauerites.—Hyatt, A.
'Haughland,' origin of a.—Coates, H.
Hausmannia.—Richter, P. B.
Haute-Garonne (France).—Bertrand, L.
Haute-Saône (France).—Drioton, C., 2.
Hauterivian, Provence.—Kilian, W., 2.
Haverfordwest (Pembroke).—Reed, F. R. C., 3.
Havré District (Hainault).—Munck, E. de.

Havre (Normandy). — Babeau, L. ; Dubois, A., 2.
Hawfinch, fossil.—Ussher, R. J.
Hawkesbury (Gloucester). — Winwood, H. H., 2.
Hay District (Cape Colony).—Rogers, A. W., 2.
Haystacks Mt. (Cumberland).—Rastall, R. H., 2.
Hazaribagh (Bengal Pres.).—Fermor, L. L., 5.
Headley (Surrey).—Young, G. W.
Hebrides, Inner (Scotland).—Harker, A., 1, 3, & 4.
Hecticoceras.—Lee, G. W. ; Popovici-Hatzeg, V.
Hedenstrœmia.—Hyatt, A.
Hederella.—Clarke, J. M., 5.
Heggin (Westphalia).—Schrœder, H., 2.
Heiligenstadt (Bavaria).—Kœhne, W., 2.
Heligmotoma.—Oppenheim, P.
Helium, mineral waters with.—Moureu, C.
Helix.—Bullen, R. A.
Hellandite, Norway.—Brœgger, W. C.
Helopora.—Hennig, A.
Hemicidaris & Hemipygus.—Seguin,—.
Hemimylacris & Heolus.—Handlirsch, A., 3.
Hérault (France). — Barrois, C., 3 ; Ferrasse, E. ; Martel, E. A., 8 ; Mazauric, F., 2 ; Miquel, J. ; Viré, A., 3.
Herborn (Nassau).—Brauns, R.
Hercynian folds, Belgium.—Simoens, G., 7.
Hereford (England).—Thompson, W.
Herrestad (Gothland).—Anon., 31.
Herschelite.—Gonnard, F., 2.
Hertfordshire.—Bonney, T. G. ; Lones, T. E. ; Monckton, H. W., 2.
Herzegovina.—Katzer, F., 1 & 5.
Hesse (Germany).—Chelius, C. ; Einecke, G. ; Freudenberg, W., 2 ; Hatzfeld, C. ; Klemm, G. ; Lang, O. ; Lepsius, R., 2 ; Steuer, A. ; Schopp, H. ; Schottler, W. ; Schrœder, H. ; Walther, J.
Hessle (Yorks).—Crofts, W. H.
Heterillina.—Schlumberger, C.
Heteroclypeus.—Schubert, R. J.
Heterodiadema.—Gregory, J. W., 4.
Heterofilicites.—Berry, E. W., 2.
Heteromeryx.—Matthew, W. D.
Heterostegina.—Schubert, R. J.
Hève, Cape la (Normandy).—Lemesnil, H. ; Noury, A., 2.
Hexagonocarpus.—Vinassa de Regny, P., 6.
Hicoria & Hicoroides.—Perkins, G. H.
Hildoceras.—Fucini, A., 4.
Himalayas (Asia).—Diener, C., 3 & 5 ; Griesbach, C. L. ; Oestreich, K. ; Pilgrim, G. E., 3 & 4 ; Workman, F. B.
Hindia.—Whitfield, R. P., 2.
Hipparion-bed, Aurillac. — Verworn, M.
Hipparion-bed, Mt. Perrier. — Boule, M., 2 ; Stehlin, H. G.
Hippopotamus, pigmy.—Bate, D. M. A. ; Grandidier, G.
Hippurites.—Pethœ, J.
Hitterœ (Norway).—Kitchin, S.
Hjo (Gothland).—*See* Sweden, Geol. Surv.
Hœrnesia.—Gortani, M., 5.
Hoh-Lumba glacier (Baltistan).—Workman, F. B.
Hohenzollern (Germany).—Schuetze, E., 2.
Hokitika (N.Z.).—Bell, J. M., 3.
Holcostephanus.—Kilian, W., 2.
Holderness (Yorks).—Mathews, E. R. ; Reid, C., 3 ; Sheppard, T., 2.
Holland.—*See* Netherlands.
Holocephalina.—Miquel, J.
Hologlyptus.—Lambert, J.
Holstein (Prussia). — Gagel, C., 12 ; Wolff, W., 2 ; *see also* Schleswig-Holstein.
Holstia.—Hagstrœm, O. ; Holst, N. O.
Holyoke (Mass.).—Emerson, B. K.
Holzappel (Hesse).—Einecke, G.
Holzminden (Brunswick).—Grupe, O.
Homalonotus.—Schwarz, E. H. L., 8.
Homoioptera.—Woodward, H., 2.
Honduras (C. Am.).—Sapper, K.
Honister Valley (Lake District).—Marr, J. E.
Hope, Loch (Scotland).—Murray, Sir J., 2 ; Peach, B. N., 3.
Hopeite.—Buttgenbach, H., 3.
Hoplisidia.—Cockerell, T. D. A.
Hoplites.—Baumberger, E. ; Kilian, W., 2 ; Uhlig, V., 2.
Hoploparia.—Harbort, E.
Hör (Scania).—Jackson, R. T.
Horiopleura.—Pâquier, V., 2.
Hormotoma.—Clarke, J. M., 7.
Hornblende, Alpes-Maritimes.—Roccati, A., 5.
Hörnli (Baden).—Greppin, E.
Hornsea (Yorks).—Sheppard, T.
Horse, evolution of the.—Kemna, A.
——, Tertiary.—Lambe, L. M., 2 & 3.
Horsham (Sussex).—Anon., 33.
Horst (Brunswick).—Harbort, E., 2.
Hortalotarsus.—Broom, R., 6.
Hot springs, Wyoming.—Darton, N. H. ; *see also* Thermal waters.
House Range (Utah).—Davis, W. M., 3.
Howesia.—Broom, R., 4.
Huancayo (Peru).—Dueñas, E. I.
Huarochiri, Lakes (Peru).—Stiles, A. I.
Huebnerite.—Headden, W. P., 2.
Huelva (Spain).—Wetzig, B.
Hughes, T. McK.—*See* Woodward, H.
Humber District, reclaimed land. — Petch, T.
—— Estuary. — Butterfield, A. E. ; Sheppard, T., 1–5.
—— Valley (N.F.).—Howley, J. P.

Humboldt, F. H. A. von.—*See* Hamy, E. T., 2.
Hundes (Asia).—Oestreich, K.
Hundesheim (L. Austria).—Toula, F., 2.
Hundisburg (Magdeburg).—Wiegers, F.
Hungarites.—Hyatt, A.
Hungary.—Bœckh, J., 1 & 2; Drevermann, F.; Emszt, K., 2; Frech, F., 7; Gesell, A.; Kalecsinszky, A. von, 1 & 2; Kapolna, V. P. von; Pethœ, J.; Posewitz, T., 1 & 2; Prinz, G., 4; Reguly, E., 1 & 2; Siegmeth, C.; Timkó, E.; *see also* Geological Survey, Peat, Soils, Transylvania, *&c.*
Huntingdonshire.—Fisher, O., 3.
Hunton Bridge (Herts).—Lones, T. E.
Hunyad Com. (Transylvania).—Papp, K. von.
Huronian schists, Lake Superior.—Bell, J. M., 2.
Hutton, F. W., *Obit.*—*See* Anon., 10; Marr, J. E.
Hyæna.—Ussher, R. J., 2.
Hydnophyllia.—Felix, J.
Hydrography, Swedish Arctic Expedition.—Hamberg, A., 4.
Hydrozoa, Jurassic.—Deninger, K.
Hymenoptera, Tertiary.—Cockerell, T. D. A.
Hypermegethes.—Handlirsch, A., 3.
Hypsocrinus.—Springer, F., 2.
Hyracodon.—Lambe, L. M., 3.
Hysteresis, rock-rigidity &.—Kusakabe, S.

Iaen, Afon (Montgomery).—Wood, E. M. R.
Iberg (St. Gall).—Hœk, H., 2.
Ica, Prov. of (Peru).—Adams, G. I., 2; Fuchs, F. G.
Ice, action of.—Hull, E., 3.
—— -age, Scotland.—Geikie, J.; *see also* Glacial period.
—— -cap, Antarctic.—Ferrar, H. T., 2.
—— -caps, thickness of.—Gugenhan, M.; Lamplugh, G. W.; Schwarz, E. H. L., 3 & 4.
—— -flood hypothesis, New Zealand.—Andrews, E. C., 3.
——, lake-shores &.—Braun, G., 3.
Iceland.—Braun, G., 2; Ferguson, H. G.; Knebel, W. von, 1 & 2; Knipovich, N.; Pjetursson, H., 1 & 2; Thoroddsen, Th.
Icenian, East Anglia.—Harmer, F. W., 2.
Ichnium footprints, Permian.—Paost, W.
Ichthyosarcolithes.—Pâquier, V., 2.
Ichthyosaurus.—Osburn, R. C.; Stolley, E., 9; Thyng, F. W.; Woodward, A. S., 4.
Idalina.—Schlumberger, C.
Idiomylacris.—Handlirsch, A., 3.
Idria (Carniola).—Kossmat, F., 3; Muellner, A., 2.
Ightham (Kent).—Bennett, F. J., 5.
Iglófüred (Hungary).—Posewitz, T.
Igneous breccia, Aberdeen.—Craig, E. H. C.
—— injection, mountain-building &.—Daly, R. A.
—— rocks, Alpes-Maritimes. — Guébhard, A.
—— ——, Antarctic.—Andersson, J. G.
Drygalski, E. von, 2.
—— ——, Argentina.—Taunhaüser, F.
—— ——, Argyll.—Hill, J. B., 2.
—— ——, Armenia.—Oswald, F.
—— ——, classification of. — Lœwinson-Lessing, F., 6.
—— ——, crystalline schists &.—Mennell, F. P., 1 & 5; Warth, H.
—— ——, Dutch East Indies. — Verbeek, R. D. M.
—— ——, Greenland.—Belowski, M.
—— ——, Hebrides.—Harker, A., 3 & 4.
—— ——, Hungary.—Emszt, K., 2.
—— ——, Linlithgow Hills.—Falconer, J. D.
—— ——, Manhattan I.—Julien, A. A.
—— ——, Massachusetts.—Sears, J. H.
—— ——, Mendips.—Reynolds, S. H.
—— ——, mineral crystallization in.—Vogt, J. H. L.
—— ——, New Zealand.—Bell, J. M., 3; Marshall, P., 3; Sollas, W. J., 3.
—— ——, origin of.—Ricciardi, L.
—— ——, Pennsylvania.—Bascom, F.
—— ——, Perthshire.—Bates, G. F.
—— ——, plasticity of.—Adams, F. D., 2 & 3.
—— ——, Queensland.—Jensen, H. I., 2.
—— ——, Rhenish Bavaria. — Burckhardt, K.; Duell, E.; Reis, O. M.
—— ——, silica of.—Johns, C.
—— ——, Somaliland.—Arsandaux, H.
—— ——, Spain.—Osann, A.
—— ——, Tasmania.—Twelvetrees, W. H., 1–3 & 7.
—— ——, Tian-Shan Mts.—Keidel, H., 2.
—— ——, Tyrol.—Block, J.
—— ——, Venetia.—Billows, E., 1 & 2; Giani, A.; Stark, M.
—— ——. *See also* Andesite, Basalt, Magmas, *&c.*
Ijolitic rocks, Kilimanjaro.—Lacroix, A., 9.
Iliona.—Whiteaves, J. F.
Illænus.—Reed, F. R. C., 4.
Illinois (U.S.A.).—Anderson, N. C.; Udden, J. A.
Ilmenite.—Solly, R. H.
Imola (Emilia).—Sangiorgi, D., 1 & 2.
Implements, flint & stone.—Blanckenhorn, M., 1 & 3; Dubois, A., 1 & 2; Foureau, F.; Hogg, A. J., 2; Johnson, J. P., 1–5 & 7; Outes, F. F.; Rutot, A., 1–4; Smith, V. A.; Steinmann, G., 2; Weinberg, R.; Wiegers, F., 1–3; Young, T.
——, in *Hipparion*-beds, Cantal.—Verworn, M.

Implements, machine-made.—Bennett, F. J.; Warren, S. H., 1 & 2.
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Laziali, Colli (Rome).—Moderni, P.
Lazio (Rome).—Silvestri, A., 1 & 2.
Lazulite.—*See* Azurite.
Lead, Alsace.—Ungemach, —.
——, Asia Minor.—Freise, F.
——, Chile. — Herrmann, A.; San Roman, F. J.
Lead, Colorado.—Purington, C. W., 2.
——, Germany.—Bruhns, W.; Einecke, G.; Hornung, F.
——, Kentucky.—Ulrich, E. O., 2.
——, Missouri.—Siebenthal, C. E.
——, New Mexico.—Brinsmade, R. B.
——, New South Wales. — Larcombe, C. O. G.; *see also* New South Wales, Dep. Mines.
——, Nigeria (S.).—Parkinson, J., 8.
——, nitrate of.—Gaubert, P., 5.
——, Savoy.—Badoureau, —; Mariani, E., 3.
——, Shan States (N.).—Fermor, L. L., 5.
——, Tasmania.—*See* Tasmania, Dep. Mines, 1–8.
——, Tennessee & Virginia.—Watson, T. L., 2.
——, Tyrol.—Krahmann, M.
——, Utah.—Boutwell, J. M.
——, Victoria.—Kitson, A. E.
——, Wisconsin. — Grant, U. S., 2; Purdue, A. H.
——. *See also* United States, Min. Resources; *&* Galena, Silver, *&c.*
Lebanon District (Syria).—Wright, G. F.
Lecanites.—Hyatt, A.
Leckhampton Hill (Gloucester).—Richardson, L., 4.
Leconteia.—Hyatt, A.
Leda.—Ascher, E.; Cragin, F. W.; Harbort, E.
Leeds (Yorks).—Hawkesworth, E.
Leiacanthus.—Stolley, E., 11.
Leicestershire.—Bennett, F. W., 3 & 4; Hodson, G.; Stracey, B.
Leighton, T., *Obit.*—*See* Anon., 11.
Leine Valley (Hanover).—Kœnen, A. von.
Leipzig (Saxony).—Hess von Wichdorff, H.
Leitimor Peninsula (Ambon I.).—Verbeek, R. D. M.
Lellingite, Tomsk.—Korotkov, —.
Lemberg (Galicia).—Láska, W.
Lemurs, Madagascar Quaternary. — Grandidier, G.
Lena R. district (Siberia).—Samoïlov, J., 2.
Lenk (Valais).—Sarasin, C., 2.
Lenne Slates, Westphalia. — Schmidt, W. E.
Lennier, G., *Obit.*—*See* Noury, A.
Leoben (Styria).—Redlich, K. A.
Leopoldia.—Baumberger, E.
Lepidocyclina. — Checchia-Rispoli, G., 3 & 4; Sacco, F., 4.
Lepidodendron.—Arber, E. A .N.; Fourreau, F.; Schwarz, E. H. L., 8.
Lepidophyllum.—Vinassa de Regny, P., 6.
Leptastræa.—Gregory, J. W., 3.
Leptocœlia.—Newton. E. T.
Lepton.—Cossmann, M., 3.
Leptophoca.—True, F. W.
Leptostrophia.—Clarke, J. M., 5.

Leptothyra.—Oppenheim, P.
Lesley, J. P., *Obit*.—*See* Chance, H. M.
Lessebo (Gothland).—*See* Sweden, Geol. Undersökn., 2.
Letmathe (Westphalia).—Schmidt, W. E.
Leucite, pseudo-.—Knight, C. W.
Leucotephrites, Mte. Somma.—Lacroix, A.
Leval-Trahegnies (Hainault).—Mathieu, E., 2.
Levantinian, S. Russia.—Andrussov, N., 2.
Levyne, Færöe Is. & Skye.—Currie, J.
Lewes (Sussex).—Dibley, G. E.
Leydsdorp (Transvaal).—Tweddill, S. M.
Leysse Valley (Savoy).—Kilian, W., 4.
Lez-Fontaines (Nord).—Carpentier, A.
Lherzolite, Piedmont.—Mattirolo, E.
Lias, Apennines (Central).—Fucini, A.
——, Austrian Alps.—Trauth, F.
——, Brunswick.—Stolley, E., 3.
——, Devon & Dorset.—Richardson, L., 7.
——, Gloucestershire.—Richardson, L., 5 & 6; Upton, C.
——, Greece.—Renz, C.
——, Hanover.—Prinz, G.
——, Luxemburg.—Blum, L.
——, Moravia.—Oppenheimer, J., 2.
——, Northants.—Thompson, B., 2.
——, Somerset.—Richardson, L.
——, Tuscany.—Fucini, A., 4.
——, Umbria.—Mercial, G.
——, Yorkshire.—Herries, R. S., 1 & 3.
——. *See also* Jurassic.
Libellulapis.—Cockerell, T. D. A.
Libertad (Peru).—Adams, G. I., 3.
Lich (Hesse).—Schottler, W.
Lichapyge & *Lichas*.—Reed, F. R. C., 4.
Liebea.—Gortani, M., 5.
Liége (Belgium).—Destinez, P.; Dewalque, G. J. G., 3; Dorlodot, L. de; Fourmarier, P., 1 & 3; Greindl, Baron L., 3; Libert, J.; Lohest, M., 3; O'Connor, W.; Renier, A., 2.
Lienne R. (Liége).—Libert, J.
Life, origin of fossil.—Dickinson, J.
Lignite, formation of.—Campbell, M. R.
——, Nigeria.—Parkinson, J., 1 & 7.
——, Panama.—Jukovski, E.
——, Rocky Mts.—Ritter, É. A.
——, Savoy.—Badoureau, —; Douxami, H., 3; Vivien, J., 3.
——, Vermont.—Perkins, G. H.
Ligugé (Poitou).—Welsch, J., 3.
Liguria (Italy).—Figari, L.; Franchi, S., 5; Issel, A., 2; Rosati, A., 1 & 2; Rovereto, G., 2; Sacco, F., 3 & 8.
Lille (Nord).—Gosselet, J., 3; Ladrière, J., 1 & 2; Pagniez, —; Videlaine, —.
Lima.—Cragin, F. W.; Fucini, A.; Pethœ, J.; Vinassa de Regny, P., 6.
Lima (Peru).—Adams, G. I., 2; Stiles, A. I.
Limber, Great (Lincoln)—Stather, J. W.
Limburg (Belgian & Dutch).—Harmer, F. W.; Lohest, M., 4; Lorié, J., 2.
Lime, Essex soils.—Dymond, T. S.
Limestone, Aberlady, Dunbar, & St. Monan's.—Crampton, C. B.
——, algæ &.—Chapman, F., 6.
——, Carboniferous lower series, Cannock Chase.—Cockin, G. M.
——, Carnic Alps, Devonian.—Scupin, H.
——, crystalline, Ceylon.—Coomáraswámy, A. K., 2.
——, granite-contact &, Arizona.—Crosby, W. O.
——, Iowa.—Eckel, E. C.
——, Lummaton Hill, Devonian.—Jukes-Browne, A. J., 5.
——, New Jersey, white crystalline.—Kuemmel, H. B., 3.
——, New South Wales, Permo-Carboniferous.—Chapman, F., 5.
——, Purbeck ostracodal.—Chapman, F., 2.
——, quartz-crystals in Carboniferous.—Maillieux, E.
——, water from.—Martel, E. M., 9; Van den Brœck, E.
——, Zebrù Valley.—Ferro, A. A.
Limmat thermal spring (Aargau).—Muehlberg, F.
Limnocardium.—Seninski, K., 2.
Limonite, Arizona.—Reid, J. A.
Limopsis.—Pethœ, J.
Limousin (France).—Glangeaud, P., 3; Welsch, J., 1–4.
Limulus Decheni.—Bœhm, J., 2.
——, Jurassic.—Jackson, R. T.
Lincolnshire.—Anon., 38; Hull, E.; Sheppard, T., 5; Stather, J. W.; Thompson, B., 3.
Lindi (German East Africa).—Hecker, O.
Lingulella.—Pack, F. J.
Linkvikskollen (Norway).—Brœgger, W. C.
Linlithgow Hills (Scotland).—Falconer, J. D.
Linopteris.—Vinassa de Regny, P., 6.
Lioparia.—Lorenz, T., 2.
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Liostracus.—Lorenz, T., 2; Miquel, J.
Liotia.—Oppenheim, P.
Lipari Is.—Wegner, T., 3.
Liparite, Ambon.—Verbeek, R. D. M.
Liriodendron.—Berry, E. W., 2.
Lisbon (Portugal).—Hull, E., 2.
Litchfield (Conn.).—Hobbs, W. H., 3.
Lithandrena.—Cockerell, T. D. A.
Litharæa.—Felix, J.
Lithiotis.—Bœhm, G., 2 & 3; Frech, F., 5; Reis, O. M., 1 & 2.
Lithiotis-beds, Dalmatia.—Katzer, F., 6; Schubert, R. J., 3.

Lithographic stone, Bavaria.—Maas, O.
—— ——, Germany.—Bruhns, W.
Lithomantidæ.—Handlirsch, A., 3.
Lithomantis.—Woodward, H., 2.
Lithostrotion.—Matley, C. A.; Stuckenberg, A.; Vaughan, A.
Littoral deposits.—Barrell, J.
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—— -deposits, Sweden.—Adlerz, G.
—— -sea, shore-lines in Gothland. — Munthe, H., 4.
Lituola.—Chapman, F., 5.
Lituonella.—Schlumberger, C., 2.
Livigno Valley (Lombardy). — Zœppritz, K.
Livonia (Russia).—Weinberg, R.
Llanbrynmair (Montgomery).—Wood, E. M. R.
Llandovery & Llandeilo Beds.—Evans, D. C.
Llangynog (Caermarthen).—Cantrill, T. C., 2.
Llanvirn Beds, Caermarthen.—Evans, D. C.
Loboo Mts. (Philippines).—Smith, W. D., 2.
Lochs, Scottish freshwater.—Murray, Sir J., 1–4; Peach, B. N., 3–5.
Lochy, Loch (Inverness).—Murray, Sir J., 4.
Lodi (Lombardy).—Toldo, G., 3.
Loire (France).—Gonnard, F.; Termier, P., 5.
Lombardy (Italy).—Cacciamali, G. B.; Ferro, A. A.; Heim, A., 3; Mariani, E., 1 & 2; Repossi, E.; Termier, P., 2; Toldo, G., 3; Zœppritz, K.
London Basin.—Treacher, Ll.
—— District, soils. — Woodward, H. B.
Long I. (N.Y.).—Veatch, A. C., 2.
Long, Loch (Argyll).—Hill, J. B., 2.
Longobardites.—Hyatt, A.
Lons-le-Saunier (Jura).—Renauld, E.
Lonsdalia.—Vaughan, A.
Looe (Cornwall).—Green, U.
Lookout Mt. (Ala.).—Bowron, W. M.
Loose Valley (Kent).—Bennett, F. J., 2.
Lophiotherium.—Stehlin, H. G., 2.
Lophophyllum.—Lorenz, T., 2.
Lophospira.—Donald, J.; Reed, F. R. C., 3.
Lorraine, French, extension of Saarbrücken coalfield into.—Anon., 24; Bergeron, J.; Cavallier, C.; Laur, F.
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Los Is. (W. Africa).—Lacroix, A., 2.
Lot (France).—Martel, E. A., 4, 7, & 12; Viré, A., 3.
Lot-et-Garonne (France).—Malbec, E.
Lothian, East (Scotland).—Bailey, E. B., 2.
——, Mid- (Scotland).—Crampton, C. B.; Martin, Rob.; Young, B. R.
Loughborough (Leicester). — Hodson, G.
Loup Fork (Kan.).—Sternberg, C. H.
Louvain (Belgium). — Leriche, M., 9; Velge, G.
Louveigné (Liége).—Fourmarier, P., 3.
Low Spen (Durham).—Lebour, G. A.
Löwentin, Lake (E. Pruss.).—Braun, G., 3.
Loxoconcha.—Bullen, R. A.; Cappelli, G. B.
Loxonema.—Gortani, M., 5; Vinassa de Regny, P., 6.
Lozère (France).—Carrière, G.
Lucendro, Lake (Ticino).—Garwood, E. J.
Lucerne, Lake (Switzerland).—Abrenz, P.; Tobler, A., 2.
Lucina.—Ascher, E.; Cragin, F. W.; Krumbeck, L.; Pethœ, J.
Lucska (Hungary).—Gesell, A., 2.
Ludlow (Salop).—Elles, G. L.
Ludlowian, Cornwall.—Green, U.
Lugano (Ticino).—Blumer, S.; Schmidt, C., 3.
Luhatschowitz (Moravia). — John, C. von.
Lui, Glen (Aberdeen).— Craig, E. H. C.
Lummaton Hill (Devon). — Jukes-Browne, A. J., 5.
Lüneburg (Hanover).—Gagel, C., 3; Wollemann, A., 1 & 4.
Lunkány (Transylvania).—Schafarzik, F.
Lunkaspri (Hungary).—Szontagh, T. von, 2.
Luossavaara (Sweden).—Stutzer, O., 2.
Luppiko (Finland).—Zemiachenski, P.
Lussin, I. (Austria).—Waagen, L.
Lutetian, Belgium & Paris Basin.—Leriche, M., 8 & 9; *see also* Tertiary.
Luxembourg (Belgium).—Dorlodot, L. de, 2.
Luxemburg, Duchy of. — Blum, L.; Dubois, E.; Duvigneaud, —.
Luz (Hautes-Pyrenees).—*See* France, Serv. Carte géol.
Lydenburg (Transvaal).—Hall, A. L., 2.
Lyginodendron.—Kidston, R.
Lyme Regis (Dorset).—Richardson, L., 7; Woodward, A. S., 8; Woodward, H. B., 3 & 5.
Lyonnais (France).—Lamothe, R. de, 2.
Lys R. (Picardy).—Gosselet, J., 5.
Lytoceras.—Popovići-Hatzeg, V.

McCalley, H., *Obit.*—*See* Smith, E. A.
Macclesfield (Cheshire).—Pocock, T. I.
Machadodorp (Transvaal).—Kynaston, H., 8.
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Macquarrie I. (S. Pacific).—Marshall, P., 2.
Macrocypris.—Cappelli, G. B.
Macrodon.—Borisyak, A., 3.

Macrotoxus.—Lorenz, T., 2.
Macskamezö (Hungary). — Kossmat, F., 2.
Mactra.—Andrussov, N.
Madagascar. — Colcanap, —, 1 & 2; Couyat, J.; Degoutin, —; Fliche, P.; Gascuel, L.; Lemoine, P., 2 & 3; Thévenin, A., 2–4.
Madeira R. (Brazil).—Evans, J. W., 2.
Madras Pres. (India).—Berwerth, F., 2; Fermor, L. L., 4 & 5.
Madre, Sierra (Mex.).—Warwick, A. W.
Madreporaria, Palæozoic.—Duerden, J. E.; *see also* Corals.
Mæotic deposits, Russia (S.).—Andrussov, N.
Maestrichtian, Haine Valley.—Cornet, J., 5.
Maevatanana (Madagascar).—Colcanap, —, 2.
Magdeburg (Prussia).—Blanckenhorn, M., 1 & 3; Linstow, O. von; Mertens, —; Richter, P. B.; Rinne, F.; Wiegers, F., 1–4.
Magellan, Strait of (S. Am.).—Brain, J., 2.
Magmas, granitic.—Milch, L.
——, gravitative adjustment in.—Daly, R. A., 3.
——, igneous (rock). — Calderón, S.; Coleman, A. P., 2; Daly, R. A., 3; Day, A. L., 2; Fleischer, A.; Read, T. T.
——, minerals &.—Dœlter, C., 4; *see also* Minerals.
Magmatic crystallization, order of. — Vogt, J. H. L.
—— segregation.— Coleman, A. P., 2; Hastings, J. B.
—— water & veins.—Spencer, A. C., 2; *see also* Veins.
Magnesian Limestone, Durham. — Abbott, G.
—— ——, Yorkshire.—Dwerryhouse, A. R.
—— ——. *See also* Carboniferous.
Magnesite, India.—Holland, T. H., 2.
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Magnetic pyrites.—*See* Pyrrhotite.
—— sand, Ponza Is.—Galdieri, A.
Magnetite, crystals of.—Weiss, P.
——, Diélette.—Cayeux, L., 5.
——, Sweden.—Stutzer, O., 2.
——, Ural Mts. — Lœwinson-Lessing, F., 5.
Main Reef, E. extension, Transvaal.—Henderson, J. McC., 2.
Maine (U.S.A.).—Bastin, E. S.; Clapp, F. G.; Frazer, P.
Maisemore (Gloucester). — Richardson, L., 6.
Malachite, Tuscany.—Achiardi, G.
Malacone.—Kitchin, S.
Malay States (Asia).—Dunstan, W. R., 2; Newton, R. B.; Scrivenor, J. B.; *see also* Perak, Mines Dep.
Malbe, Mte. (Umbria).—Mercial, G.
Malchite, Piedmont.—Preiswerk, H.
Malone Mt. (Texas).—Cragin, F. W.
Mamma (Shan States).—Simpson, R. R.
Mammalia, Alaskan frozen.—Obalski, T.
——, Bohemian fossil.—Bayer, F.
——, Cretaceous.—Gilmore, C. W., 2.
——, evolution of Tertiary.—Depéret, C.
——, limb-modifications of aquatic.—Osburn, R. C.
——, Permo-Triassic origin of.—Broom, R., 5.
——, Quaternary. — Anderson, N. C.; Gidley, J. W., 1 & 2; Hamy, E. T.; Kendall, P. F., 2; Lœnnberg, E.; Mertens, —; Muorlon, M., 4; Munthe, H.; Redlich, K. A.; Reynolds, S. H., 2; Sacco, F.; Schrœder, H., 2 & 4; Toula, F., 2; Obalski, T., 1 & 2; Udden, J. A.
——, Tertiary.—Abel, O., 5; Ameghino, F., 2; Andrews, C. W.; Barbour, E. H.; Berry, E. W., 3; Condon, T.; Flores, E.; Gilmore, C. W., 2; Lambe, L. M., 2 & 3; Loomis, F. B.; Matthew, W. D., 1 & 2; Neumayer, L.; Osgood, W. H.; Rautenberg, M.; Redlich, K. A.; Sinclair, W. J.; Stehlin, H. G., 1 & 2; Tournouër, A.
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Mammalian deposits, Mt. Perrier.—Boule, M., 2; Stehlin, H. G.
—— teeth, Mesozoic.—Gidley, J. W., 3.
Mammia.—Handlirsch, A., 3.
Mamoré R. (Brazil).—Evans, J. W., 2.
Mammoth, Illinois & Iowa.—Anderson, N. C.; Udden, J. A.
——, morphology of the.—Pfizenmayer, E.
Mammoth Cave (Co. Cork). — Ussher, R. J., 2.
Man, Berkshire prehistoric.—Shrubsole, O. A.
——, Glacial Period &.—Sollas, W. J., 2.
——, Lansing.—Williston, S. W.
——, Quaternary.—Dastre, A.; Hogg, A. J.; Luehe, —; Reinhardt, L.; Rzehak, A.; Weinberg, R.
——, Tertiary.—Gugenhan, M.
Man, I. of.—Reade, T. M., 4.
Manchuria (Asia). — Krasser, F., 2; Zalesski, M., 2.
Mandrikovka (Ekaterinoslav).—Sokolov, N.
Manga Reva I. (Pacific).—Agassiz, A.
Manganese, bog-ores.—Vogt, J. H., 2.
——, Borneo.—Dieseldorf, A.
——, Bosnia.—Katzer, F., 3.
——, Germany.—Bruhns, W.
——, Hungary. — Kossmat, F., 2; Papp, K. von, 2.
——, India.—Fermor, L. L., 3; Holland, T. H., 2; La Touche, T. D., 3; *see also* India, Dep. Mines.

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Manganiferous iron-ore, Liége.—Libert, J.
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Manhattan I. (N.Y.).—Hobbs, W. H., 1 & 2; Julien, A. A.; *see also* New York City.
Manicaland (E. Africa).—Couyat, J., 2.
Manich R. (Prov. Don Cossacks). — Bogachev, V.
Manitoba (Canada).—Bell, R., 3; Whiteaves, J. F.
Manjak, Trinidad. — Craig, E. H. C., 2–7.
Mann Range (N. Terr., S. Australia).—Basedow, H., 2.
Man-sang & Man-se-le (Shan States).—Simpson, R. R.
MANSERGH, J., *Obit.*—*See* Marr, J. E.
Mansfield (Notts).—Hickling, G.
—— (Victoria).—Woodward, A. S., 5.

MAPS.

AFRICA (NORTH).
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MOROCCO. Atlas Mts. $\frac{1}{750,000}$. 1905. —Brives, A., 2.
——, Plain of. $\frac{1}{1,000,000}$. 1905.—Brives, A.; & 1 inch = 55 miles. 1905.—Lemoine, P.
TUNIS. Monastir. $\frac{1}{50,000}$. 1905. — Lamothe, R. de.
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——. Griqualand West, Hay Division, & Prieska. 1 inch = $12\frac{1}{2}$ miles. 1906.—Rogers, A. W., 2.
——. Uniondale. 1 inch = 4·73 miles; Bokkeveld Mts. 1 inch = 7·1 miles. 1906.—Schwarz, E. H. L.
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——. Klerksdorp District. $\frac{1}{1,250,000}$. 1906.—Jorissen, E.
——. Komati Poort Coalfield. $\frac{1}{2}$ inch = about 1 mile; 1 inch = 1 mile; 1 inch=3 miles. 1906.—Kynaston, H.
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——. Marico R. District. 1 inch = 2·35 miles. 1906.—Holmes, G. G.
——. Middelburg District, Witbank. 1 inch=$2\frac{1}{2}$ miles. 1906.—Mellor, E. T., 4.
——. Pretoria District. 1 inch = $\frac{1}{2}$ mile. 1905.—Kynaston, H., 7.
——. ——, Rustenburg, & Witwatersrand Districts. 1 inch = $2\frac{1}{2}$ miles. 1906.—Hall, A. L., 3.
——. —— & Rustenburg Districts, Kromdraai, &c. 1 inch=$2\frac{1}{4}$ miles. 1906.—Hall, A. L., 4.
——. Vryburg, &c. 1 inch = $7\frac{1}{2}$ miles & 1 inch = 30 miles. 1906. —Holmes, G. G., 2.
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ALASKA (*various*). 1906. — Brooks, A. H.
——. Seward Peninsula. Fairhaven Placer-District. 1 inch = 4 miles. 1905.—Moffit, F. H.
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772 & 885. Yukon District, Klondyke goldfield. 1 inch = 2 miles. 1905.—McConnell, R. G.
775, 820, 824, 825, & 864. Ontario. Sudbury. 1 inch = 1 mile & 1 inch = 400 feet. 1905.—Barlow, A. E.
789. Ontario. Perth. 1 inch = 4 miles. 1905.—Ells, R. W.
791 & 792. British Columbia. West Kootenay. 1905. — McConnell, R. W. (No Report.)
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808. Alberta, Blairmore-Frank coal-basin. 1 inch = 180 chains. 1906.—Bell, R., 3.
809. Ontario (S.W.) raised beaches. 1 inch = 24 miles. 1906.—Bell, R., 3.
812. Nova Scotia. Springhill coalfield. $1\frac{1}{2}$ inches=about 2 miles. 1906.—Bell, R., 3.
823. Assiniboia. Souris R. coalfield. 1 inch=$1\frac{1}{2}$ miles. 1906. —Dowling, D. B., 2.
833. Nova Scotia. Pictou coalfield. $3\frac{1}{8}$ inches=1 mile. 1905. —Poole, H. S.
845. Alberta. Sheep Creek. 1 inch = about 2 miles. 1906. —Bell, R., 4.
852. Ontario. Arm and Vermilion iron-ranges and Lake Temagami. 1 inch=40 chains. 1906.—Bell, R., 4.
874–876. Quebec. Montreal Island. 1 inch=4 miles. 1905. —Adams, F. D., 4.

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Canada. British Columbia. Purcell Mts. Moyie-River sills. $\frac{1}{64,000}$. 1906. —Daly, R. A., 3.
——. Ontario. Lake Timiskaming cobalt-nickel-arsenic-silver. 1 inch =1 mile. 1905.—Miller, W. G., 3.
Newfoundland. Gander R., & country between Despair Bay & Glenwood. 1 inch = 15·78 miles. 1906.—Millais, J. G.
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—— and part of Canada. 1 inch = 300 miles. 1906.—Chamberlin, T. C., 3.
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114. De Smet (S. Dak.). 1904.
115. Kittanning (Pa.). 1904.
116. Asheville (N. Car.). 1904.
117. Casselton-Fargo (N. Dak.). 1905.
118. Greeneville (Tenn.). 1905.
119. Fayetteville (Ark.). 1905.
120. Silverton (Colo.). 1905.
121. Waynesburg (Pa.). 1905.
122. Tahlequah (Ind. Terr.). 1905.
123. Elders Ridge (Pa.). 1905.
124. Mount Mitchell (N. Car.). 1905.
125. Rural Valley (Pa.). 1905.
126. Bradshaw Mts. (Ariz.). 1905.
127. Sundance (Wy.). 1905.
128. Aladdin (Wy.). 1905.
129. Clifton (Ariz.). 1905.
130. Rico (Colo.). 1905.
131. Needle Mt. (Colo.). 1905.
132. Muscogee (Ind. Terr.). 1905.
133. Ebensburg (Pa.). 1905.
134. Beaver (Pa.). 1905.
135. Nepesta (Colo.). 1906.
Alabama. Cahaba coalfield. 1½ inches =1 mile. (Revised) 1905.—Smith, E. A., 2.
Arizona. Clifton-Morenci District (*various*). 1905.—Lindgren, W., 4.
——. Salt-River Valley. 1¼ inches =2 miles. 1905.—Lee, W. T.
California. San Bernardino Valley. 1 inch =1 mile. 1905.—Mendenhall, W. C., 5.
Colorado. Boulder District. 1 inch = 1 mile. 1905.—Fenneman, N. M., 2.

AMERICA (North).
United States.
Colorado. Lower Clear Creek. 1 inch=1 mile & ¾ inch=2 miles. 1906.—Underhill, J.
Eastern States Water-supply (*various*). 1905.—Fuller, M. L., 4.
Idaho & Montana (*also* British Columbia). Purcell Mts., Moyie-River sills. $\frac{1}{64,000}$. 1906. — Daly, R. A., 3.
Iowa. Benton Co. 1 inch =2 miles. 1905.—Savage, T. E.
——. Clinton Co. 1 inch=2 miles. 1905.—Udden, J. A., 2.
——. Emmet, Palo Alto, & Pocahontas Co., *each* 1 inch = 2 miles. 1905.—Macbride, T. H.
——. Fayette Co. 1 inch=2 miles. 1905.—Savage, T. E., 2.
——. Jasper Co. 1 inch = 2 miles. 1905.—Williams, I. A.
Kentucky. Cumberland-Gap coalfield. 1906.—Ashley, G. H.
Maryland. Coalfields (*various*). 1905.—Clark, W. B.
——. Baltimore Co. 1 inch = 2½ miles. 1905.—Matthews, E. B., 2.
Massachusetts. Boston District. Roxbury conglomerate. 1⅛ inches= 2 miles. 1906.—Mansfield, G. R., 2.
——. Essex Co. 1 inch = 1 mile. 1905.—Sears, J. H.
——. Holyoke. 1 inch = 1 mile. 1905.—Emerson, B. K.
—— & Vermont. Taconic & Green Mts. 1 inch = 5½ miles. 1905.—Dale, T. N.
Michigan. Arkona Beaches. 1 inch =25 miles. 1906.—Taylor, F. B., 2.
Missouri. Granby Area. 4 inches =1 mile. 1906. — Buckley, E. R., 2.
——. Moniteau Co. 1 inch=1½ mile. 1906.—Van Horn, F. B.
New Jersey. Peat-deposits. 1 inch =5 miles. 1906.—McCourt, W. E.
——. Sussex Co. white-limestone area. 1 inch=1 mile. 1906.—Kuemmel, H. B., 3.
New Mexico. Jornada del Muerto. 1 inch=12 miles. 1905. — Keyes, C. R.
New York. Manhattan I. 1 inch =2 miles. 1905.—Hobbs, W. H.
——. ——. 1 inch=½ mile. 1906. —Julien, A. A.
——. Long I. (*various*). 1906. — Veatch, A. C., 2.
——. Portage Division. 1 inch = 15 miles. 1904.—Clarke, J. M., 6.
Nevada. Tonopah District (*various*). 1905.—Spurr, J. E., 2.
Oklahoma Territory. 1 inch = 20 miles; Wichita Mts. 1 inch= 4¼ miles. 1905.—Gould, C. N.

AMERICA (NORTH).
UNITED STATES.
PENNSYLVANIA. Elders Ridge. 1 inch=1 mile. 1905.—Stone, R. W.
——. Franklin Co., South Mountain. 1 inch=3 miles. 1906.—Stose, G. W.
TEXAS (N.). 1 inch=13 miles. 1906.—Gould, C. N., 2.
VERMONT (*various*). 1905.—Marsters, V. F.
WASHINGTON. Castle Peak, $\frac{1}{115,000}$; & Similkameen batholites, $\frac{1}{120,000}$. 1906.—Daly, R. A., 2.
WISCONSIN (South-Eastern). Drift (*various*). 1904 & 1906.—Alden, W. C.
——. Zinc & Lead-districts (*various*). 1906.—Grant, U. S., 2.
WYOMING, &c. Yellowstone National Park (*various*). 1904. — Hague, A.
AMERICA (CENTRAL).
HONDURAS. $\frac{1}{1,000,000}$. 1905.—Sapper, K.
NICARAGUA, COSTA RICA, & PANAMA. $\frac{1}{750,000}$; & soils, $\frac{1}{4,000,000}$. 1905.—Sapper, K.
MEXICO. Chiapas & Tabasco. $\frac{1}{1,000,000}$. 1905.—Bœse, E.
——. Chihuahua, Guaynopita (*various*). 1906.—Hovey, E. O., 5.
——. Tamaulipas, San José. 1 inch=1 mile. 1906.—Kemp, J. F., 5.
——. Xalapazcos. $\frac{1}{40,000}$. 1905.—Ordoñez, E.
WEST INDIES. Trinidad. Oilfields, southern anticline. 1 inch=1 mile. 1905.—Craig, E. H. C., 2.
——. ——. San Fernando manjak-field. $6\frac{2}{3}$ inches=1 mile. 1906.—Craig, E. H. C., 7.
AMERICA (SOUTH).
ARGENTINA. Sierra de Cordoba. $\frac{1}{1,000,000}$. 1905.—Bodenbender, G.
BRAZIL. Ceará. $\frac{1}{1,120,000}$. 1906.—Katzer, F., 4.
BRITISH GUIANA. Essequibo & Cuyuni Rivers. 1 inch=2 miles. 1905.—Harrison, J. B.
PERU. Prov. Celendin. Punre coal-field. $\frac{1}{50,000}$. 1905.—Santolalla, F. M.
——. Prov. Ica. $\frac{1}{50,000}$. 1905.—Fuchs, F. G.
ANTARCTIC REGIONS.
Graham Land, $\frac{1}{50,000,000}$; Lands round the Erebus & Terror Gulf, $\frac{1}{1,000,000}$; & Islands round Admiralty Sound, $\frac{1}{200,000}$. 1906.—Anderson, J. G.
EUROPE.
ALPS, Carpathian Mts., &c. $\frac{1}{4,000,000}$. 1906.—Van de Wiele, C., 3.
ALSACE. Upper Rothau. $\frac{1}{25,000}$. 1905.—Fœrster, B.

EUROPE.
AUSTRIA-HUNGARY. Carniola. Laibach. $\frac{1}{75,000}$. 1904.—Kossmat, F.
——. Galicia. Tarnobrzeg. 1 inch=$1\frac{1}{2}$ miles. 1905.—Friedberg, W. S.
——. Hungary. Bihar Megye. $\frac{1}{25,000}$. 1906.—Papp, K. von.
——. ——. Ecsedi Láp. $\frac{1}{17,500}$. 1906.—Guell, W., 3.
——. ——. Gynlafehérvár, Déva, Ruszkabánya, and the Rumanian frontier. $\frac{1}{200,000}$. 1905.—Nopcsa, F., Baron (*fil.*).
——. ——. Hunyad Com., Alvacza. (No scale.) 1905.—Papp, K. von.
——. ——. Transylvania. Karics-Czebe gold-district. 1 inch=$1\frac{1}{5}$ miles. 1906.—Papp, K. von, 3.
——. ——. Vag R. & Little Danube District: soils. $1\frac{1}{2}$ inches=about 1 mile. 1906.—Horusitzky, H., 2.
——. —— & Rumania. Eastern Carpathian Mts. 1 inch=9 miles. 1904.—Mrazec, L.
——. Moravia. Gobitschau. $\frac{1}{18,000}$. 1906.—Kretschmer, F.
——. Styria. Gratz. Mur & Stiefing Rivers: Miocene. $\frac{1}{75,000}$. 1906.—Fabian, K.
——. Tyrol. $\frac{1}{500,000}$. 1906.—Rothpletz, A.
——. ——. Ortler-Brenner District. $\frac{1}{500,000}$. 1905.—Termier, P., 2.
——. Vienna. $\frac{1}{75,000}$. 1906.—Schaffer, F. X., 2.
BADEN. Geologische Landesanstalt. Geologische Karte. $\frac{1}{25,000}$.
22. Ladenburg. 1905.—Thuerach, H.
54. Kurnbach. 1905.—Schnarrenberger, K.
108. St. Peter. 1906.—Schnarrenberger, K.
132. Bonndorf. 1906.—Schalch, F.
BELGIUM. Campine. $\frac{1}{160,000}$. 1906.—Lohest, M., 4.
——. Liége. Lienne R. manganese-iron mines. $\frac{1}{20,000}$. 1906.—Libert, J.
BULGARIAN DOBRUDSHA. $\frac{1}{500,000}$. 1906.—Launay, L. de, 2.
CROATIA & SLAVONIA. Zone 23, Col. XV. Ivanić Kloštar i Moslavina. $\frac{1}{75,000}$. 1906.—Gorjanović-Kramberger, K.
FINLAND. Kuopio & Viborg Govs. $\frac{1}{1,000,000}$. 1902.—Frosterus, B.
——. Onega-Ladoga Isthmus (Northern). 1 inch=17 miles (two maps). 1906.—Ramsay, W., 4.
——. Viborg Gov. (Southern). $\frac{1}{1,000,000}$. 1902.—Ramsay, W.
—— (Arctic). Lapland. $\frac{1}{400,000}$. 1903.—Borg, V.

EUROPE.

FRANCE. Service de la Carte géologique. Carte géologique détaillée de la France. $\frac{1}{80,000}$. Aug. M. Lévy, (Directeur).

6. Montreuil-sur-Mer, par J. Gosselet. 1906.
58. Morlaix, par C. Barrois. 1906.
165. Ussel, par A. de Launay, P. Gautier, Aug. M. Lévy, & A. Lacroix. 1906.
200. Gap, par E. Haug, W. Kilian, P. Lory, P. Termier, & D. Martin. 1906.
219. Albi, par G. Vasseur, J. Blayac, J. Replin, J. Bergeron, & — Dereims. 1904.
251. Luz, par A. Bresson & L. Carez. 1906.

——. Alpes-Maritimes. St. Jean Peninsula & Villefranche. $\frac{1}{25,000}$. 1905.—Maury, E., 2.

——. Meurthe-et-Moselle, &c. $\frac{1}{500,000}$. —Cavallier, C.

——. Nord. Bavai. $\frac{1}{40,000}$. 1905.—Ladrière, J., 2.

——. Normandy. Bagnoles. $\frac{1}{100,000}$. 1906.—Launay, L. de.

——. Picardy. Aa R. 1 inch = 5 miles. 1905.—Briquet, A., 3.

——. Poitou. $\frac{1}{600,000}$. 1905.—Welsch, J.

——. Savoy. Coalfields. $\frac{1}{1,000,000}$. 1902. —Badoureau, —.

——. ——. Plateau des Déserts. $\frac{1}{50,000}$. 1899.—Douxami, H., 10.

——. ——. Valloire Valley. 1 inch = about $1\frac{1}{2}$ miles. 1899.—Kilian, W., 10.

——. Tarn. Albi coal-basin. $\frac{1}{80,000}$. 1905.—Laromiguière, J.

—— & BELGIUM. Paris Basin and Louvain: Lutetian deposits. 1 inch = 16 miles. 1906.—Leriche, M., 9.

GERMANY. $\frac{1}{4,000,000}$. 1906.—Bruhns, W.

BADEN. Geisingen, Wartenberg. $\frac{1}{10,000}$. 1906.—Becker, E., 2.

BAVARIA. Fichtelgebirge. Weissenstadt tin-deposits. 1 inch = about 2 miles. 1906.—Schmidt, A.

——. Regenstauf - Bodenwöhrerbucht. 1 inch = 1 mile. 1906. —Wanderer, K.

BRANDENBURG. Berlin-Magdeburg moraines. $\frac{1}{900,000}$. 1906.—Linstow, O. von, 2.

HANOVER. St. Andreasberg. $\frac{1}{5,000}$. 1905.—Bode, A.

——. Süll-Berg. $\frac{1}{25,000}$. 1905.—Stille, H., 6.

HARZ MTS. Brocken massif. $\frac{1}{100,000}$. 1906.—Erdmannsdœrffer, O. H.

——. Elbingerode. $\frac{1}{4,000}$. 1906.—Schleifenbaum, W.

——. Rösteberge. 1 inch=90 yards. 1906.—Kaiser, E., 2.

EUROPE.

GERMANY.

HESSE. Fachingen a. d. Lahn. 1 inch = about 1 mile. 1906.—Hatzfeld, C.

HESSE-NASSAU. Holzappel. $\frac{1}{44,000}$. 1906.—Einecke, G.

MECKLENBURG. Neuenkirchen Lake. $\frac{1}{100,000}$. 1905.—Bærtling, R.

MERSEBURG. Halle-Weissenfels. $\frac{1}{175,000}$. 1906.—Siegert, L.

PRUSSIA (W.). Braunsrode Senonian. $\frac{1}{25,000}$. 1906.—Jentzsch, A.

SCHAUMBURG-LIPPE. Cretaceous Basin. $\frac{1}{250,000}$. 1905.—Harbort, E.

WESTPHALIA. Büren. $\frac{1}{75,000}$. 1905. —Stille, H., 6.

——. Iserlohn & Letmathe. $\frac{2}{3}$ inch =1 mile. 1905.—Schmidt, W. E.

WÜRTEMBERG. Stuttgart (*various*). 1906.—Gugenhan, M., 2.

ITALY. Bolsena District, Lake. Grotte di Castro. $\frac{1}{50,000}$. 1906.—Orzi, D.

——. ——. $\frac{1}{100,000}$; & Mte. Cimino. $\frac{1}{100,000}$. 1904.—Sabatini, V.

——. Lombardy. Chiasso & Breggia R. $\frac{1}{25,000}$. 1906.—Heim, A., 3.

——. Piedmont. Lanzo. $\frac{1}{100,000}$. 1905. —Mattirolo, E.

——. ——. Scrivia Valley & Turin Hills, both $\frac{1}{100,000}$. 1906.—Sacco, F., 5.

——. Rome. Tiber, &c. (*various*). 1906.—Angelis d'Ossat, G. de, 2.

——. Venetia. Belluno District. Glaciation at Fadalto and Valmareno. $\frac{1}{50,000}$. 1905.—Toniolo, A. R.

——. ——. Recoaro-Schio Railway. $\frac{1}{75,000}$. 1906.—Maddalena, L.

——. Vesuvius. $\frac{1}{125,000}$. 1906.—Wegner, T., 2.

MONTENEGRO, &c. $\frac{1}{250,000}$. 1904.—Vinassa de Regny, P.

RHENISH BAVARIA. Potzberg & Königsberg District. $\frac{1}{25,000}$. 1906.—Burckhardt, K.; & $\frac{1}{3,000,000}$. 1906.—Reis, O. M.

RUSSIA, Arctic. Kanin Peninsula. 1 inch = 26 miles. 1904.—Ramsay, W., 5.

——. Caucasus (N.). Laccolite-hills (*various scales*). 1905.—Derwies, V. de.

——. Kharkov. Izium & N.W. Donetz Basin. 1 inch = about $12\frac{1}{2}$ miles. 1905.—Borisyak, A.

—— (South). Black & Caspian Seas Mæotic Deposits. 1 inch = 40 miles. 1905.—Andrussov, N.

——. Urals (Central). Perm. Nijni-Tagilsk. 1 inch = nearly 3 miles. 1904.—Krasnopolski, A.

EUROPE.

Saxony. Plauen coalfield, Zauckerode. $\frac{1}{4,000}$. 1906.—Hartung, H.

Servia & Turkey. $\frac{1}{1,200,000}$. 1904.—Cvijić, J.

Spain. Andalusia. Almeria. $\frac{1}{600,000}$. 1906.—Fircks, F. von.

——. Guipaczcoa. Cestona. $\frac{1}{100,000}$. 1906.—Launay, L. de.

Great Britain and Ireland.

British Isles. Geological Survey. 1 inch=25 miles. 1906.—*See* Great Britain, Geol. Surv.

England and Wales. Geological Survey. 1-inch geological map. N. s. Sheet 110. Macclesfield (Drift). Colour-printed. 1906.—Pocock, T. I.

——. ——. ——. N. s. Sheet 123. Stoke-upon-Trent (Solid). Colour-printed. 1906.—Gibson, W.

——. ——. ——. N. s. Sheet 326 & 340. Sidmouth (Drift). Colour-printed. 1906.—Woodward, H.B., 4.

——. ——. ——. N. s. Sheet 332. Bognor (Drift). Colour-printed. 1905.—Reid, C.

——. ——. ——. N. s. Sheet 334. Eastbourne (Drift). Colour-printed. 1905.—Ussher, W. A. E., 2.

——. ——. ——. N. s. Sheet 357 & 360. Isles of Scilly (Drift). Colour-printed. 1906.—G. Barrow.

——. ——. London Soils. 1 inch= 4 miles. 1906.—Woodward, H. B.

——. Caermarthenshire (Western). 1 inch = 1 mile. 1906.—Evans, D. C.

——. ——. Llangynog. 3 inches= 1 mile; & enlarged plan of Capel Bethesda. 6 inches = 1 mile. 1906.—Cantrill, T. C., 2.

——. ——. N. Staffordshire coalfield. 1 inch = 3 miles. 1905.—Gibson, W.

——. Cumberland. Ennerdale, Buttermere, & Wastwater. 1 inch = 2 miles; & Burtness Combe. 3 inches = 1 mile. 1906.—Rastall, R. H.

——. Cornwall. Helford Basin. 1 inch = 1 mile. 1906.—Hill, J. B.

——. Devon. Two sheets. 1 inch = 4 miles. 1906.—Ussher, W. A. E.

——. ——. Lummaton Hill. 6 inches = 1 mile. 1906.—Jukes-Browne, A. J., 5.

——. Dorset. Isle of Purbeck. 1 inch = $2\frac{1}{3}$ miles. 1906.—Strahan, A.

——. Isle of Wight. 1 inch = about 5 miles. 1905.—Leriche, M., 3.

——. Lake District. 1 inch = 5 miles. 1906.—Postlethwaite, J.

EUROPE.

Great Britain and Ireland.

England and Wales. Westmorland. Keisley. $17\frac{1}{2}$ inches=1 mile. 1906.—Marr, J. E., 3.

——. London Basin. $1\frac{1}{2}$ inches = 5 miles. 1906.—Treacher, Ll.

——. Shropshire. Ludlow District. 2 inches = 1 mile. 1906.—Elles, G. L.

——. Somerset. Ebbor Rock. 3 inches=1 mile. 1906.—Sibly, T. F.

England, Picardy, & Westphalia. Coalfields. $\frac{1}{300,000}$. 1904.—Hermary, J.

Ireland. Antrim & Down. 1 inch =4 miles. 1906.—Anon., 36.

——. Co. Dublin. Coast at Rush. 3 inches = 1 mile, & 1 inch = about 400 feet. 1906.—Matley, C. A.

Scotland. Geological Survey. 1-inch map. Sheet 37. Inveraray. 1906.—Peach, B. N., 2.

——. Dumfriesshire. Canonbie coalfield. 1 inch = $\frac{1}{2}$ mile. 1905.—Peach, B. N., 6.

——. Haddingtonshire. Port Seton. $1\frac{1}{2}$ inches=1 mile. 1905.—Bailey, E. B., 2.

——. Linlithgowshire. $1\frac{1}{16}$ inches =1 mile. 1905.—Falconer, J. D.

——. Perthshire. Atholl. Tay-River terraces, Ballinluig. 3·35 inches = 1 mile. 1906.—Coates, H.

——. Rum (I. of). Ashval & Sgùrr-nan-Gillean. 1 inch = $\frac{1}{2}$ mile. 1905.—Harker, A.

——. Sutherland. Loch Borolan. 1 inch = 1 mile. 1906.—Shand, J.

Greenland. Kommissionen for Ledelsen af de geologiske og geographiske Undersøgelser i Grønland. Kort over Grønland. $\frac{1}{2,000,000}$. In 4 sheets. Topographical. Copenhagen. 1906.

Iceland. $\frac{1}{750,000}$. 1906.—Thoroddsen, Th.

Sweden. Geological Survey. Ser. Aa, No. 120. Gothland. Falköping. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—H. Munthe & W. Johnson.

——. ——. Ser. Aa, No. 125. Tidaholm. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—H. Munthe.

——. ——. Ser. Aa, No. 126. Ankarsrum. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—F. Svenonius.

——. ——. Ser. Aa, No. 130. Vadstena. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1905.—A. Blomberg.

——. ——. Ser. Aa, No. 131. Gallö. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—A. Blomberg.

——. ——. Ser. Aa, No. 132. Hjo. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—A. Blomberg.

EUROPE.

SWEDEN. Geological Survey, Ser. Aa, No. 133. Vimmerby. $\frac{1}{50,000}$ & $\frac{1}{300,000}$ (in text). 1906.—E. Svedmark.

——. ——. Ser. A, 1a, No. 5. Gothland. Lessebo-Kalmar. $\frac{1}{200,000}$. 1906. —H. Hedstrœm & C. Wiman. 1906.

——. Dannemora, Grängesberg, and other iron-ore districts (*various*). 1906.—Sjœgren, O., 6.

——. Gothland. Göteborg. Billingen, Mt. $\frac{1}{300,000}$. 1906.—Munthe, H.

SWITZERLAND. Bernese Oberland (*various*). 1906.—Baltzer, A., 2.

——. Glarus Alps. $\frac{1}{750,000}$. 1905.—Heim, A.

——. Grisons. Engadin, Lower, $\frac{1}{500,000}$, and Piz-Lad Group, $\frac{1}{50,000}$. 1906.—Schiller, W.

——. ——. Engadin, Upper. Albula Pass, &c. $\frac{1}{50,000}$. 1906.—Zœppritz, K.

——. ——. Plessur Alps. $\frac{1}{50,000}$. 1906.—Hœk, H.

——. Neuchâtel. Sources of the Areuse R. $\frac{1}{200,000}$. 1906.—Schardt, H.

——. St. Gallen. Walensee, Mattstock, Gulmen District. $\frac{1}{50,000}$. 1906. —Heim, A., 5.

——. Ticino. Piora Lakes, $\frac{1}{42,240}$; & St. Gotthard Lakes, $\frac{1}{50,000}$. 1906.—Garwood, E. J.

——. Valais. Lenk-Adelboden. $\frac{1}{50,000}$. 1906.—Sarasin, C., 2.

TURKEY in Europe, Asia Minor, &c. $1\frac{1}{2}$ inches=69 miles. 1904.—Toula, F.

ASIA.

ASIA MINOR. Armenia (*various*). 1906.—Oswald, F.

CEYLON. Avissawela, Balangoda, and We Ganga (*various*). 1906.—Coomáraswámy, A. K., 2.

CHINA. Shan-Tung. $\frac{1}{250,000}$. 1905.—Lorenz, T.

DUTCH EAST INDIES. Ambon I. $\frac{1}{100,000}$; Leitimor Peninsula. $\frac{1}{20,000}$; Goenoeng Nona Mt. $\frac{1}{10,000}$. 1905.—Verbeek, R. D. M.

——. Celebes. Bwool District. $\frac{1}{100,000}$. 1905.—Koperberg, M.

——. ——. Moöetong & Todjo Districts. $\frac{1}{500,000}$. 1905.—Koperberg, M., 2.

——. Sumatra. Boekit, Assam, $\frac{1}{25,000}$; Minjak Jtam, $\frac{1}{25,000}$; & Moeara Enim, $\frac{1}{100,000}$. 1906.—Tobler, A.

INDIA. Bhután. 1 inch=8 miles. 1906.—Pilgrim, G. E., 3.

——. Central Provinces. Chhindwára & Nagpur Districts. 1 inch =4 miles. 1906.—Datta, P. N.

——. ——. Chhindwára District. Sausar Tahsil manganese-deposits. 1 inch=1 mile. 1906.—Fermor, L. L., 3.

ASIA.

INDIA. Dharwar District. Gadag gold-belt. 1 inch=1 mile; & Kabligatti village. 2 inches=1 mile; Bellary District, Gadag gold-belt. 1 inch= 2 miles. 1906.—Maclaren, J. M., 3.

——. Kashmir. Jammu State, Dandli coalfield. 1 inch=$1\frac{1}{2}$ miles. 1906.—Wright, C. M. P.

——. Mysore. Bangalore & Kolar Districts. 1 inch=4 miles. 1906. —Wetherell, E. W.

——. ——. Chitaldrug & Javanhalli schist-belts. 1 inch=4 miles. 1906. —Wetherell, E. W., 2.

——. ——. Hole Narasipur, Kallenhalli, Mudgere, &c., all 1 inch=1 mile. 1906.—Sambasiva-Iyer, V. S.

——. ——. Shimoga & Kadur Districts. 1 inch=4 miles. 1906.—Slater, H. K.

——. Shan States. Hsipaw. 1 inch =2 miles. 1906.—La Touche, T. D.

——. ——. Lashio coalfield. 1 inch =8 miles & 1 inch=2 miles. 1906. —La Touche, T. D., 4.

——. ——. Namma coalfield. 1 inch=2 miles & 1 inch=1600 feet. 1906.—Simpson, R. R.

JAPAN. Isenoumi-Bay District. 1 inch=about 20 miles. 1906.—Kusakabo, S., 4.

CHINA, &c. Tian Shan Mts. (north central). 1906.—Keidel, H.

AUSTRALASIA.

NEW SOUTH WALES. Clyde River. $1\frac{3}{8}$ inches = 1 mile. Nowra and Sussex-Haven Inlet. 1 inch = 4 miles; also Little Forest & Conjola. 1 inch=1 mile. 1905.—Jaquet, J. B., 2.

——. Gerringdon District. 4 inches =1 mile. 1905.—Harper, L. F.

——. Peaks Silver-District. 1 inch =10 chains. 1906.—Larcombe, C. O. G.

NEW ZEALAND. Auckland. Cape-Colville Peninsula. 1 inch=4 miles. 1906.—Sollas, W. J., 3.

——. Dunedin. 1 inch=2 miles. 1906.—Marshall, P., 3.

——. Hokitika, North Westland Quadrangle, &c. (*various*). 1906.—Bell, J. M., 3.

—— (South I.). Otago. Clarendon-Millburn District. $1\frac{1}{8}$ inches=1 mile. 1906.—Andrews, A. R., 2.

QUEENSLAND. Geological Survey. Geological sketch-map of Queensland, showing mineral-localities, by B. Dunstan & H. W. Fox. 1 inch =40 miles. 1905.—*See* QUEENSLAND, Geol. Surv.

——. Croydon District (*various*). 1905.—Dunstan, B.

——. Wide Bay & East Moreton Districts. 1 inch=4 miles. 1906. —Jensen, H. I., 2.

AUSTRALASIA.
South Australia. Ayers Ranges. 1 inch=8 miles. 1905.—Basedow, H., 2.
——. Northern Territory. Charlotte Waters & L. Eyre. 1 inch=16 miles. 1905.—Brown, H. Y. L., 2.
Tasmania. 1 inch=55 miles. 1905. —David, T. W. E., 3.
——. 1 inch=45 miles. 1905.—Waller, G. A., 2.
Victoria. Blackwood - Trentham goldfield. 1 inch=1 mile. 1906. —Ferguson, W. H.
Western Australia. Menzies. 2 inches=1 mile. 1906.—Woodward, H. P.
——. Norseman District. 2 inches $=\frac{1}{2}$ mile. 1906.—Campbell, W. D.
——. Pilbara goldfield (*various*). 1906.—Maitland, A. G., 2.
——. Wodgina tinfield. 1 inch=20 chains. 1906.—Maitland, A. G.
——. *See also* Western Australia, Dep. Mines, 2.

Maragnicrinus.—Whitfield, R. P.
Marakesh, Plain of (Morocco).—Brives, A.
Marble, Belgian black.—Destinez, P.
——, Carrara.—Achiardi, G. d'.
——, Greenland.—Belowski, M.
——, India.—Holland, T. H., 2.
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Marcasite, Calafuria Massif.—Manasse, E.
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Marsupites-zone, France.—Leriche, M., 4.
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—— Basin.—Van de Weile, C., 1 & 3.
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Medusæ, Jurassic.—Maas, O.
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Mitra.—Oppenheim, P.
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Naktong Series, Korea.—Yabe, H.
Namaqualand, Little (S.A.).—Ronaldson, J. H.
Namur (Belgium).—Brien, V.; Mailleux, E.; Martel, E. A., 13; Mathieu, E.; Simoens, G., 7.
Nannites.—Hyatt, A.
Nan-tu River (Shan States).—La Touche, T. D.
Nantucket, I. (Mass.).—Johnson, D. W., 2; Wilson, J. H.
Naosaurus.—Jækel, O., 3.
Naples (Italy).—Cool, H.
Naples (N.Y.).—Clarke, J. M., 6.
Narbada R. (India).—Vredenburg, E.
Narnaul (Patiala, India).—Bose, P. N.
Narrakal (Travancore).—Neilson, R. G.
Nassau (Germany).—Brauns, R.; Einecke, G.
Nasso.—Andrussov, N.
Natal (S.A.).—Anderson, W.; Gray, C. J., 1 & 2.
Natal Museum, Pietermaritzburg.—*See* Natal.
Natica.—Ascher, E.; Cragin, F. W.; Krumbeck, L.; Pethœ, J.; Oppenheim, P.
Natrolite.—Manasse, E., 2.
Nauders (Tyrol).—Suess, E.
Naumburg-an-der-Saale (Thuringia).—Picard, E.; Wuest, E.
Nautilus.—Brown, H. Y. L.
Naver, Loch (Scotland).—Murray, Sir J., 2; Peach, B. N., 3.

Nazca Prov. (Peru).—Fuchs, F. G.
Neœra.—Oppenheim, P.
Neanites.—Hyatt, A.
Nebo Farm (Orange River Colony).—Sawyer, A. R., 3.
Nebraska (U.S.A.).—Barbour, E. H., 1 & 2; Schuchert, C., 2.
Necymylacris.—Agnus, A. N.
Neithea.—Pethœ, J.
Neocomian, Russia. — Sintzov, I.; Tovarov, K.
——, Silesia.—Till, A.
——, Surrey.—Herries, R. S., 2.
——, Tyrol.—Ascher, E.
——. *See also* Cretaceous.
Neomylacris.—Handlirsch, A., 3.
Neon, thermal water with.— Moureu, C., 2.
Neosho River (Kan.).—Beede, J. W.
Nepheline-rocks, Los Is.—Lacroix, A., 2.
——, New South Wales. — Larcombe, C. O. G.
——, Sweden.—Tœrnebohm, A. E., 2.
Nephrite, Bahia.—Hussak, E.
Nerinea.—Ascher, E.; Cossmann, M.; Cragin, F. W.; Pethœ, J.; Seidlitz, W. von.
Nerinella.—Cossmann, M.; Cragin, F. W.
Nerita.—Cossmann, M., 3; Cragin, F. W.; Pethœ, J.; Schmidt, M.
Neritina. —Pethœ, J.; Seninski, K., 2.
Netherfield (Sussex).—Whitaker, W.
Netherlands.—Calker, F. J. P.; Dubois, E., 2.
Neu-Bamberg (Rhein-Hesse).—Schopp, H.
Neuchâteau (Dutch Luxemburg).—Duvigneaud, —.
Neuchâtel (Switzerland).—Schardt, H.
Neuenkirchen Lake (Mecklenburg). — Bærtling, R.
Neuewelt (Basel).—Benecke, E. W., 3.
Neuhaldensleben (Magdeburg).—Blanckenhorn, M., 1 & 3; Wiegers, F., 1–3.
Neurode (Silesia).—Dathe, E., 1 & 2.
Neurodontopteris & Neuropteris. — Vinassa de Regny, P., 6.
Neuropteridium.—Arber, E. A. N.
Neutitschein (Moravia).—Beck, H.
Nevada (U.S.A.). — Collins, E. A.; Hastings, J. B.; Lakes, A., 4; Lawson, A. C.; Pack, F. J.; Schuchert, C.; Spurr, J. E., 2, 4, & 5.
——, Sierra (Cal.).—*See* Sierra Nevada.
New Britain I. (Pacific).—Brown, G.
New Brunswick (Canada). — Bell, A., 2–4; Ells, R. W., 2.
New Caledonia (Pacific).—Deprat, J.; Kilian, W., 9.
New England (N.S.W.).—Andrews, E. C.; *see also* Massachusetts, *&c.*
Newfoundland (N. Am.).—Howley, J. P.; Millais, J. G.
New Guinea, British.—*See* British.
New Guinea (Pacific). — Haupt, O.; Meigen, W.; Schmeisser, C.
New Hampshire (U.S.A.).— Clapp, F. G.; Pirsson, L. V., 2.
New Hebrides (Pacific).—Chapman, F., 6; Mawson, D., 1 & 2.
New Jersey (U.S.A.).—Berry, E. W., 2; Haupt, L. M.; Kuemmel, H. B., 1–3; McCourt, W. E.; Vermeule, C. C.; Whitfield, R. P., 3; Willcox, O. W.; Williston, S. W., 3.
New Mexico (U.S.A.).—Brinsmade, R. B.; Gidley, J. W.; Gordon, C. H.; Keyes, C. R., 1–4.
New South Wales.—Andrews, E. C., 1, 3, & 4; Card, G. W.; Chapman, F., 5; David, T. W. E., 2; Dun, W. S.; Etheridge, R. (*fil.*); Harper, L. F.; Jaquet, J. B., 1 & 2; Jensen, H. I.; Larcombe, C. O. G.; Macdonald, W. F.; Mingaye, J. C. H., 2; Taylor, T. G.; *see also* New South Wales, Dep. Mines.
New York (U.S.A.).—Clarke, J. M., 1–3 & 5–7; Fuller, M. L., 2; Merrill, F. J. H.; Slocom, A. W.; Tarr, R. S., 1–3; Veatch, A. C., 2; Whitfield, R. P.; Williams, H. S., 2; *see also* Catskill Mts., *&c.*
New York City (N.Y.).—Hobbs, W. H., 1 & 2; Julien, A. A.; *see also* Manhattan I.
New Zealand.—Andrew, A. R., 1 & 2; Andrews, E. C., 2 & 3; Baracchi, P.; Bell, J. M.; David, T. W. E.; Fuchs, T.; Hogben, G., 2–4; Hutton, F. W., 2 & 3; Maclaren, J. M.; Marshall, P., 1, 3, & 4; Sollas, W. J., 3; *see also* Otago, *&c.*
Newmire (Colo.).—Ohly, J.
Newton Dale (Yorks).—Sewell, J. T., 2.
Newydd Fynyddog (Montgomery). — Wood, E. M. R.
Niagara Falls (N. Am.).—Fairchild, H. L., 3.
Nicaragua (C. Am.).—Sapper, K., 1 & 4.
Nice (Alpes-Maritimes).—Négris, P.
Nickel, arsenate of.—*See* Cabrerite.
——, chloride of.—Muegge, O., 3.
——, Norway.—Coleman, A. P., 2.
——, Ontario.—Barlow, A. E., 1 & 2; Browne, D. H.; Campbell, W., 3; Coleman, A. P., 2; Miller, W. G., 2 & 3.
Nickeliferous pyrrhotites. — Campbell, W., 2.
Nigeria (W. Af.). — Dunstan, W. R.; Parkinson, J., 1–9.
Nijni Novgorod Gov. (Russia).—Tolmatschov, I. P.
Nijni-Tagilsk(Urals).—Krasnopolski, A.; Lœwinson-Lessing, F., 4; Yakovlev, N.
Nile Valley (Egypt).— Hume, W. F.; Lyons, H. G., 2; Rutot, A., 3.
Nilsson, A., *Obit.*—*See* Munthe, H., 3.
Niort (Deux Sèvres).—Welsch, J., 1–4.
Nipissing District (Ont.).—Anon., 25.
Nismes (Namur).—Martel, E. A., 13.
Niso.—Pritchard, G. B., 5.

Nisusia.—Walcott, C. D., 2.
Nitrates, Chile.—Herrmann, A.
Nitrobarite.—Gaubert, P., 5.
Nivolet (Savoy).—Jeanson, —; Révil, J., 10.
Nodules, concretionary.—Chapman, F.
Nœggerathiopsis.—Arber, E. A. N.
Noiraigne (Neuchâtel).—Schardt, H.
Nolinsk (Viatka).—Ryabinin, A.
Nomenclature, pre-Cambrian. — Coleman, A. P., 3.
Noranco(Ticino).—Blumer, S.; Schmidt, C., 3.
Nord (France).—Briquet, A., 1 & 4; Carpentier, A., 1–4; Gosselet, J., 1–8; Ladrière, J., 1 & 2; Leriche, M., 1, 2, & 6; Pagniez, —; Rutot, A., 5; Simoens, G.
Nord-du-Flénu pit (Hainault).—Cornet, J., 3.
Nordenskjöld, A. E., *Obit*.—*See* Palmén, J. A.
Norfolk.—Bonney, T. G., 2; Brydone, R. M., 1 & 2; Harmer, F. W., 1–3; Hinton, M. A. C.; Hudleston, W. H.; Lorié, J., 3; Reid, C., 2; Woodward, H., 6.
Norite, Pilandsberg.— Molengraaff, G. A. F., 2.
Normandy (France).—Babeau, L.; Bigot, A., 1 & 2; Cossmann, M., 3; Dollfus, G. F., 5; Launay, L. de; Lemesnil, H.; Matte, H., 1 & 2; Noury, A., 2; Rutot, A., 7.
Norrbotten (Sweden). — Gavelin, A.; Post, L. von; Sjœgren, O.; Stutzer, O., 2–4.
Norseman District (W. Austral.). — Campbell, W. D.
Northamptonshire.—Anon., 34; Markham, C. A.; Thompson, B., 1–3.
Northumberland.—Kidston, R., 2; Lebour, G. A., 3; Wood, G. C.; Woolacott, D., 1 & 2.
Northupite.—Schulten, A. de.
Norway.—Brœgger, W. C.; Coleman, A. P., 2; Fletcher, M.; Henriksen, G.; Kolderup, C. F.; Öyen, P. A.; Rekstad, J., 1 & 2; Suess, E., 2; *see also* Glaciation, *&c*.
Norwich Crag, Bramerton.—Hinton, M. A. C.
Notharctus.—Loomis, F. B.
Nothosauridæ.—Jækel, O.
Noto Valley (Sicily).—Gonnard, F., 2.
Notothyris.—Keidel, H.
Nottinghamshire.—Hickling, G.; Johns, C., 3.
Nova Scotia (Canada).—Bell, R., 2–4; Gilpin, E., Jun.; Pool, H. S.
Novalaise Valley (Savoy).—Révil, J., 4.
Novgorod Gov. (Russia).—Zalesski, M.
Nucula.—Fucini, A.; Sokolov, N.
Nuculana.—Newton, R. B.
Nuculites.—Schwarz, E. H. L., 8.
Nummulites.—Boussac, J.; Deprat, J.; Prever, P. L., 1 & 2; Vredenburg, E., 4.
Nummulites, dimorphism of.—Kemna, A., 2.
—— *lævigatus*-sandstone, France.—Leriche, M., 9.
Nummulitic limestone, Apennines. — Prever, P. L.
—— ——, France.—Douvillé, H.; Prever, P. L., 2.
—— ——, Piedmont.—Prever, P. L., 2.
—— ——, Senegambia.—Meunier, S., 2.
—— ——, Tuscany.—Aloisi, P., 2.
Nusse (Prussia).—Gagel, C., 9.
Nyárasd (Hungary).—Timkó, E.
Nyassa.—Reed, F. R. C., 2.
Nyitra Com. (Hungary).— Horusitzky, H.
Nyssa.—Perkins, G. H.

Oamaru (N.Z.).—Fuchs, T.
Oban Hills (S. Nigeria).—Parkinson, J., 3.
Obolella.—Etheridge, R. (*fil.*); Lorenz, T., 2.
Obsidian-buttons, or Obsidianites, Tasmania.—Twelvetrees, W. H., 7.
Oceanic circulation, climates &.—Chamberlin, T. C., 1 & 2.
—— concretions.—Collet, L. W.
—— deposits. — Eastman, C. R.; Jentzsch, A., 3; Thoulet, J.; Van't Hoff, J. H., 1–4; *see also* Ooze, Salt, *&c*.
Oceans, chemical evolution of the. — Lane, A. C., 2.
—— of geological time.—Suess, E., 2.
Ocoll Conglomerate, stretched pebbles in.—McCallie, S. W.
Octahedrite.—Palache, C.
Odenwald (Hesse).—Chelius, C.; Klemm, G.
Oder Valley (Harz).—Bode, A.
Œbisfelde (Brunswick).—Stolley, E., 5.
Œsling (Luxembourg).—Dorlodot, L. de, 2.
Œtz Valley (Tyrol).—Termier, P., 2.
Offneria.—Pâquier, V., 2.
Offretite, Loire.—Gounard, F.
Ohio (U.S.A.).—Bownocker, J. A., 1 & 2; Prosser, C. S.
Oise (France).—*See* Artois.
Okanagan (Wash.).—Daly, R. A., 2.
Okenite.—Cornu, F., 3.
Oklahoma (U.S.A.).—Gould, C. N.
Olby, Oligocene lake (Auvergne). — Glangeaud, P., 2.
Olcostephanus.—Cragin, F. W.
Old Red Sandstone, Scotland. — Du Toit, A. L.; Traquair, R. H., 2.
Olenellus.—Etheridge, R. (*fil.*).
Olenoides-fauna, China.—Lorenz, T., 2.
Olethroblatta.—Handlirsch, A., 3.
Oligocene, Aveyron.—Marty, P.
——, Bavaria.—Stuchlik, H.
——, Denmark.—Ravn, J. P. J.
——, Mont-Dore.—Glangeaud, P., 2.
——, Spain.—Depéret, C., 4.
——. *See also* Tertiary.
Oliphants R. (Transvaal).—Gau, W. J.

Oliva.—Oppenheim, P.
Olivine.—Cornu, F., 5.
—— -diabase, Harz.—Koch, M.
Olonetz Gov. (Russia).—Ramsay, W., 4.
Oltenia (Rumania).—Murgoci, G. M., 2.
Omai (British Guiana).—Harrison, J. B., 4.
Omospira.—Donald, J.
Omphacite.—Roccati, A., 2.
Omphalocyclus.—Krumbeck, L.
Omphalophloios.—Foureau, F.
Ompolyicza (Transylvania).—Roth von Telegd, L.
Ompolypreszáka (Transylvania).—Roth von Telegd, L., 2.
Onega, Lake (Russia).—Ramsay, W., 3 & 4.
Onnaing (Nord).—Carpentier, A., 2.
Ontario (Canada).—Anon., 25; Barlow, A. E., 1 & 2; Bell, R., 2–4; Browne, D. H.; Campbell, W., 3; Clarke, J. M., 6; Coleman, A. P.; Ells, R. W.; Frank, F. J.; Grant, C. C.; Jones, T. R.; Kerr, D. G.; Leith, C. K., 3; Lury, J. S. de; Miller, W. G., 1–3; Whiteaves, J. F., 4.
Onychocardium.—Whitfield, R. P.
Onychocrinus.—Springer, F.
Oolite, Franche-Comté.—Girardot, A., 1 & 2.
——, Lincolnshire.—Thompson, B., 3.
——, Northants.—Thompson, B., 2.
——, Oxfordshire.—Walford, E. A.
——. *See also* Jurassic.
Oolitic iron-ore, Basel.—Leuthardt, F.
—— ——, Hungary.—Treitz, P., 2.
—— ——, Liége.—Fourmarier, P., 3.
—— ——, origin of.—Cayeux, L., 6; Meunier, S., 4.
—— ——, Westphalia.—Brauns, R., 2.
Ooze, deep-sea.—Thoulet, J.
——, glauconitic.—Collet, L. W., 3.
——, Pacific.—Flint, J. M.
——, Travancore coast.—Neilson, R. G.
Opal.—Cornu, F., 5.
Ophiceras.—Hyatt, A.
Ophiolitic rocks, Tuscany.—Lotti, B.
Ophitic rocks, Alps.—Jaccard, F.; Steinmann, G.
Oppelia.—Cragin, F. W.; Lee, G. W.; Popovići-Hatzeg, V.
Opsis.—Woods, H.
Oran (Algeria).—Ficheur, E., 2.
Orange River Colony (S.A.).—Harger, H. S.; Sawyer, A. R., 3; Wessels, J. W.
Orbicella.—Gregory, J. W., 3.
Orbicular structure, origin of.—Blake W. P., 2.
Orbitoides.—Deprat, J.; Lemoine, P., 4.
Orbitolites.—Bullen, R. A.
Orciano (Tuscany).—Fucini, A., 3.
Ordovician, Bohemia.—Želízko, J. V.
——, Caermarthenshire.—Evans, D. C.
——, Haverfordwest.—Reed, F. R. C., 3.
——, Normandy.—Matte, H., 2.
——, Pennsylvania.—Bascom, F.
——, Tyrone.—Fearnsides, W. G.
——, Westmorland.—Marr, J. E., 3.
Ore-deposition.—Day, A. L.; Lindgren, W.; Read, T. T.; Sullivan, E. C.
Ore-deposits, Almeria.—Fircks, F.
—— ——, Archæan continents and.—Heneage, E. F.
—— ——, Chile.—San Roman, F. J.
—— ——, contact-metamorphism &.—Crosby, W. O.
—— ——, distribution in depth.—Gregory, J. W.
—— ——, Harz Mts.—Hornung, F.
—— ——, industrial supremacy &.—Stewart, J. L.
—— ——, Michigan.—Lane, A. C., 4; Ossa, I. D.
—— ——, origin of.—Ditte, A.; Ochsenius, K.; Park, J., 1–5; Waller, G. A.
—— ——, Peru.—Santolalla, F. M., 1–3.
—— ——, secondary enrichment.—Kemp, J. F., 2.
—— ——, Sicily.—Lotti, B., 3.
—— ——, Switzerland.—Bueler, H.
—— ——. *See also* Contact-metamorphism, Veins, *&c.*
Ore-segregation.—Coleman, A. P., 2; Henriksen, G.
Ores, crystalline rocks &.—Trener, G. B.
——, igneo- & sedi-genetic.—Bain, H. F., 2; *see also* Iron, *&c.*
Oregon (U.S.A.).—Condon, T.; McClung, C. E.; Ward, L. F.
Orford Mts. (Quebec).—Wilson, A. W. G.
Oriskania.—Clarke, J. M., 5.
Oriskany fauna, New York.—Clarke, J. M., 5.
Orissa (India).—Bose, P. N., 2.
Orizaba, Mt. (Mex.).—Angermann, E., 2.
Ormonts (Savoy).—Renevier, E.
Oro, Punta d' (Lake Iseo).—Cacciamali, G. B.
Orthis.—Etheridge, R. (*fil.*); Lamanski, V. V.
Orthoceras.—Clarke, J. M., 7; Hyatt, A.; Schwarz, E. H. L., 8; Whiteaves, J. F., 3.
Orthoclase, Corsica.—Deprat, J., 4.
——, decomposition of.—Cushman, A. S.; *see also* Felspar.
Orthogonophora & Orthomylacris.—Handlirsch, A., 3.
Orthophragmina.—Deprat, J.; Kilian, W., 3.
Orthothetes.—Clarke, J. M., 5; Vinassa de Regny, P., 6.
Ortler (Tyrol).—Hammer, W., 1 & 3; Termier, P., 2.
Ortola (Tuscany).—Aloisi, P., 2.
Oryctoblattina.—Handlirsch, A., 3.
Ostracoda, Carboniferous.—Ulrich, E. O.
——, Devonian.—Clarke, J. M., 5.
——, Jurassic.—Chapman, F., 2.
——, Ordovician.—Jones, T. R.
——, Silurian.—Clarke, J. M., 7; Whiteaves, J. F., 1 & 3.

Ostracoda, Tertiary.—Cappelli, G. B.; Neviani, A., 2.
Ostrea.—Ascher, E.; Bœhm, G., 3; Frech, F., 5; Jukes-Browne, A. J., 2; Jukovski, E., 2; Krumbeck, L.; Leriche, M., 5; Pethœ, J.; Reis, O. M., 1 & 2.
Ostrog (Volhynia).—Laskarev, V.
Otago (N.Z.).—Andrew, A. R., 1 & 2; Boult, C. N.; Marshall, P., 4; Thomson, J. A.
Otavi (German S.W. Africa).—Schneider, O.
Otavite.—Schneider, O.
Otolites, of fishes.—Bassoli, G. G.; Schubert, O., 4.
Otopteris.—Dun, W. S.
Ottajano (Vesuvius).—Lacroix, A., 12.
Ouche Valley (Burgundy).—Collot, L., 2.
Ouenza, Jebel (Constantine).—Termier, P., 4.
Oum-er-Rebia (Morocco).—Brives, A., 4.
Ouray Co. (Colo.).—Schwarz, T. E.
Oustalet, E., *Obit.*—*See* Woodward, H., 4.
Ovibos.—Munthe, H.
Ovrutsch (Volhynia).—Dubyanski, V. V. (Doobyanski).
Ovula.—Krumbeck, L.
Owenites.—Hyatt, A.
Oxfordshire.—Anon., 34; Dawkins, C. G. E.; Harmer, F. W., 4; Huene, F. von, 4; Walford, E. A.
Oxynoblatta.—Handlirsch, A., 3.

Pachychilus.—Jukovski, E., 2.
Pachydiscus.—Macovei, G.; Pethœ, J.
Pachynolophus.—Stehlin, H. G., 2.
Pachypadra (India).—Fermor, L. L.
Pachytraga.—Pâquier, V., 2.
Pacific Ocean.—Agassiz, A.; Brown, G.; Flint, J. M.; Holway, R. S.; *see also* Coral-islands, *&c.*
Padirac Cave (Lot).—Martel, E. A., 4, 7, & 12.
Pago I. (Dalmatia).—Waagen, L.
Pagodia.—Walcott, C. D., 3.
Painswick (Gloucester).—Richardson, L., 5.
Pajsberg (Sweden).—Sjœgren, O., 7.
Pala (Cal.).—Waring, G. A.
Palæno.—Borisyak, A.
Palæoblatta & *Palæodictyopteron.*—Handlirsch, A., 3.
Palæolithic gravels, Hainault & Picardy.—Rutot, A., 4.
—— implements, *Hipparion*-beds, Cantal.—Verworn, M.
—— ——, Transvaal.—Johnson, J. P., 1 & 7; *see also* Implements.
Palæomastodon.—Andrews, C. W.
Palæoneilo.—Schwarz, E. H. L., 8.
Palæontology, Antarctic.—Andersson, J. G., 3.
——, biology &.—Woodward, A. S., 2.
——, Canadian, 1904.—Ami, H. M.
Palæontology, geological time &.—Ami, H. M., 2; Goodchild, J. G.
——, North American, 1904.—Weeks, F. B.
——, text-book of.—Frech, F.
Palæopropithecus.—Grandidier, G.
Palæothentes.—Sinclair, W. J.
Palæotherates.—Handlirsch, A., 3.
Palæotherium.—Stehlin, H. G., 2.
Palæozoic, Cornwall.—Hill, J. B.
——, Gratz.—Heritsch, F.
——, Hungary.—Rozlozsnik, P., 2.
——, Volhynia.—Laskarev, V.
——. *See also* Devonian, *&c.*
Palagonia (Sicily).—Gonnard, F., 2.
Palagonite, Massachusetts.—Emerson, B. K.
Palaiotaptus.—Handlirsch, A., 3.
Paliurus.—Berry, E. W., 2.
Palladium, Brazil.—Hussak, E., 6.
——, New South Wales.—Mingaye, J. C. H., 2.
Palma (Canary Is.).—Sapper, K., 2.
Palmatopteris.—Vinassa de Regny, P.
Palo Alto (U.S.A.).—Macbride, T. H.
Paludina.—Cossmann, M., 3.
—— -beds, N. German interglacial.—Menzel, H., 2.
Paludinopsis.—Icke, H.
Paluzza (Carnic Alps).—Vinassa de Regny, P., 7.
Pampian, S. America.—Bravard, A.
Panama (C. Am.).—Jukovski, E., 1 & 2; Sapper, K.
Pandermite, Asia Minor.—Schmeisser, C., 2.
Pandorf (Hungary).—László, G. von, 2.
Pangong, Lake (Tibet).—Huntington, E.
Panna (Bengal).—Vredenburg, E., 3.
Panopæa.—Pethœ, J.; Wegner, T.
Pans, origin of.—Mellor, E. T., 2.
Papandajan volcano (Java).—Gaubert, P., 2.
Pará (Brazil).—Clarke, J. M., 4.
Paracatú (Brazil).—Pearson, H.
Paracerithium.—Cossmann, M.
Parachætetes.—Deninger, K.
Paracheliphlebia.—Handlirsch, A., 3.
Paracypris.—Neviani, A., 2.
Paradoxides.—Miquel, J.
Paradoxostoma.—Cappelli, G. B.
Paraganides.—Hyatt, A.
Parahoplites.—Jacob, C.
Paralecanites & *Paranannites.*—Hyatt, A.
Paraparchites.—Ulrich, E. O.
Paraphyllites.—Maas, O.
Paraptyx.—Clarke, J. M., 6.
Paratacamite.—Smith, G. F. H.
Paravivianite.—Popoff, S.
Parchim (Mecklenburg).—Gagel, C., 6.
Paris Basin (France).—Alessandri, E. de; Cayeux, L., 7; Combes, P. (*fil.*); Couppey de la Forest, M. le; Dollfus,

G. F., 2–4; Fritel, P. H., 1 & 2; Leriche, M., 8 & 9; Peron, A., 2; Pujet, R.
Paronæa.—Prever, P. L.
Parthenay (Deux Sèvres).—Welsch, J., 1–4.
Parvisipho.—Cossmann, M., 3.
Pas-de-Calais (France). — Barrois, C.; Briquet, A., 2; Kuess, —; *see also* Picardy.
Passaic, Lake (N.J.).—Vermeule, C. C.
Passy (Seine).—Combes, P. (*fil.*).
Patagonia (S. Am.).—Ameghino, F.; Gaudry, A.; Outes, F. F.; Sinclair, W. J.
Patella.—Welch, R.
Patiala (India).—Bose, P. N.
Paumotu Is. (Pacific).—Agassiz, A.
Pavlograd (Kharkov). — Borisyak, A., 2.
Peach, B. N.—*See* Anon., 20.
Peak (Yorks).—Herries, R. S., 1 & 3.
Peake (N.S.W.).—Larcombe, C. O. G.
Peat, Archangel.—Ramsay, W., 2 & 5.
——, Brandenburg.—Gagel, C., 2; Schrœder, H., 4.
——, Britanny.—Cayeux, L., 4.
——, Durham.—Smythe, J. A., 2.
——, formation of.—Campbell, M. R.
——, Hungary.—Guell, W., 3; Horusitzky, H., 3; Kormos, T.
——, New Jersey.—McCourt, W. E.
——, Savoy.—Badoureau, —.
——, Scotland.—Geikie, J.; Lewis, F. J., 1 & 2.
——, Sweden.—Post, L. von.
——, Yorkshire.—Sheppard, T.
Pebble-bed, Neuchâteau white.—Duvigneaud, —.
Pebbles, facetted. — Calker, F. J. P.; Gagel, C., 8; Krause, P. G.; Philippi, E., 2; *see also* Windworn stones.
——, Jurassic limestone with Triassic.—Stille, H., 4.
——, metalliferous veins with.—Halse, E., 2.
——, Ocoll Conglomerate, stretched.—McCallie, S. W.
——, Rennes.—Pavot, —.
Pecopteris.—Vinassa de Regny, P., 6.
Pecten.—Arnold, R.; Cragin, F. W.; Depéret, C., 3; Fucini, A.; Gortani, M., 5; Jukovski, E., 2; Pethœ, J.; Sokolov, N.
Pectunculus.—Pethœ, J.; Sokolov, N.
Pegmatite-veins, California. — Waring, G. A.
Pegmatites, ore-veins &.—Beck, R.
Pelé, Mt. (Martinique).—Hill, R. T.; Hovey, E. O., 1 & 2; Lacroix, A., 12.
Peloponnesus (Greece).—Négris, P., 2 & 3.
Peloritan Mts. (Sicily).—Lotti, B., 3.
Pelosina.—Chapman, F., 5.
Pelvoux massif (Dauphiné).—Jacob, C., 2.
Pembrokeshire.—Reed, F. R. C., 3.
Pendleside Series, England.—Hind, W., 4; Traquair, R. H.
—— ——, Ireland.—Hind, W.
Pendleton (Lancs).—Davison, C., 4.
Peneroplis.—Bullen, R. A.
Penfield, S. L., *Obit.*—*See* Anon., 12; Pirsson, L. V.
Pennine Alps.—*See* Alps.
Pennsylvania (U.S.A.).—Bascom, F.; Butts, C.; Kindle, E. M., 2; Mathews, E. B.; Stone, R. W.; Stose, G. W.; Travis, C.
Pentellina.—Schlumberger, C.
Pentremites.—Schuchert, C., 3; Ulrich, E. O., 2.
Pepinster (Liége).—Dewalque, G. J. G., 3.
Peplosmilia.—Angelis d'Ossat, G.
Perak (Fed. Malay States).—*See* Perak State, Mines Dep.
Perbál (Hungary).—Liffa, A., 2.
Peridotite, Ambon.—Verbeek, R. D. M.
——, Connecticut.—Hobbs, W. H., 3.
Periloculina.—Schlumberger, C.
Perisphinctes.—Cragin, F. W.; Lee, G. W.
Perlonjour (Hainault).—Anon., 33.
Perm Gov. (Russia).—Abels, H. F.; Cherdantzev, A. A.; Krasnopolski, A.; Lœwinson-Lessing, F., 4; Suschinski, P. P.; Yakovlev, N.
Permian, American use of the term.—Keyes, C. R., 6.
—— breccias, Devon. — Hobson, B.; Hunt, A. R., 2.
—— fauna, S. Africa.—Broom, R., 2.
—— footprints in European.—Pabst, W.
——, Glatz.—Flegel, K.
——, Harz Mts.—Kaiser, E., 2.
——, Kansas.—Wooster, L. C.
——, Lombardy.—Mariani, E., 2.
——, Nottinghamshire.—Hickling, G.
——, Oklahoma Terr.—Gould, C. N.
——, Würtemberg.—Kranz, W.
——. *See also* Permo-Carboniferous.
Permo-Carboniferous, America (N.).—Schuchert, C., 2.
——, Cape Colony.—Sjögren, O., 4.
—— glaciation, Australian & Tasmanian.—David, T. W. E., 2.
——, India.—Schuchert, C., 2.
——, New South Wales.—Chapman, F., 5; Etheridge, R. (*fil.*); Jaquet, J. B., 2.
——, Russia.—Schuchert, C., 2.
——, Transvaal.—Mellor, E. T.
Permo-Triassic, Africa (S.).—Broom, R., 1–6.
——, Carnic Alps.—Gortani, M., 5.
——, Colorado.—Cross, W., 2.
——, Italy.—Caneva, G.
Perna.—Pethœ, J.
Péronne (Picardy).—Gosselet, J., 8 & 10; Hermary, J., 2.
Perrier, Mt. (Puy-de-Dôme).—Boule, M., 2; Stehlin, H. G.
Persia.—Morgan, J. de; Sykes, P. M.; Zeiller, R.

Perth (Ont.).—Ells, R. W.
Perthshire.—Bates, G. F.; Coates, H.; Du Toit, A. L.
Peru (S. Am.).—Adams, G. I., 1–3; Denegri, M. A.; Dueñas, E. I.; Fuchs, F. G.; Hurd, H. C.; Pfluecker, 1 & 2; Polo, J. T.; Pompeckj, J. F., 2; Santolalla, F. M., 1–3; Stiles, A. I.; Sutton, C. W., 1 & 2.
Perugia (Umbria).—Mercial, G.
Petalaxis.—Vaughan, A.
Petaurus.—Sinclair, W. J.
Pétervárad or Peterwardein Mts. (Hungary).—Pethœ, J.
Petit-Cœur (Savoy).—Girard, —.
'Petit granit,' Hainault.—Anon., 33.
Petit-Modave (Liége).—Destinez, P.
Petoceras.—Salfeld, H.
Petraia.—Whiteaves, J. F.
Petricola.—Cossmann, M., 3; Pethœ, J.
Petrographical classification. — Lœwinson-Lessing, F., 6.
Petroleum, Asia Minor.—Schmeisser, C., 2.
——, Burma.—La Touche, T. D., 3.
——, Canada.—Bell, R., 2–4; Mabery, C. F.
——, Germany.—Bruhns, W.
——, India.—Holland, T. H., 2.
——, Japan.—Stigand, I. A., 2.
——, New South Wales. — *See* New South Wales, Dep. Mines.
——, Orange River Colony.—Sawyer, A. R., 3.
——, origin of.—Hornung, F., 2; Ochsenius, K.; Plotts, W.; Potonié, H.
——, Rumania.—Murgoci, G. M., 3.
——, salt &.—Harperath, L.
——, Silesia.—Angermann, E.; Holobek, J.
——, Sumatra.—Tobler, A.
——, treatise on.—Redwood, Sir B.
——, Trinidad.—Craig, E. H. C., 2–7.
——. *See also* United States, Min. Resources.
Petrology, experimental.—Johns, C., 4.
——, modern.—Twelvetrees, W. H., 2.
——, North American, 1904.—Weeks, F. B.
——, road-metal.—Lovegrove, E. J.
——. *See also* Internat. Cat. Sci. Lit.
Petrosz (Hungary).—Szadeczky, J. von.
Petter, W. H., *Obit*.—*See* Russell, I. C.
Phacops.—Reed, F. R. C., 4; Schwarz, E. H. L., 8.
Phanerosaurus.—Stappenbeck, R.
Pharmacosiderite, Tomsk. — Korotkov, —.
Phasianella.—Pethœ, J.
Phear, Sir J., *Obit*.—*See* Marr, J. E.
Phenacite.—Spencer, G. F. H.
Philippine Is.—Smith, W. D., 2; Wigmore, H. L.
Phillipsia.—Vinassa de Regny, P., 6.
Phiomia.—Andrews, C. W.
Phlegræan Fields (Naples).—Suess, E., 2.
Phoberoblatta.—Handlirsch, A., 3.
Phoca, Swedish *Littorina*-deposits.—Adlerz, G.
——, Tertiary.—True, F. W.
Phœnicopsis.—Krasser, F., 2.
Pholadomya.—Cragin, F. W.; Fucini, A.
Pholas.—Ascher, E.
Phonolite, New Zealand.—Marshall, P., 3.
Phosphates, Algeria.—Savornin, J.
——, Cochin China.—Petiton, A.
——, Otago.—Andrew, A. R., 1 & 2.
——. *See also* United States, Min. Resources.
Phosphatic Chalk, Berkshire.—White, H. J. O., 1 & 3.
—— concretion, Thüringian Culm. — Lehder, J.
—— minerals, diamond-bearing sand.—Hussak, E., 5.
—— oceanic concretions. — Collet, L. W.
Phosphatization of volcanic rocks by birds.—Lacroix, A., 8.
Phosphorescent limestones, Colorado & Missouri.—Headden, W. P.
Photography, geological.—Bingley, G.; Harrison, W. J.
Phtthanites, Liége Carboniferous. — Renier, A., 2.
Phthinomylacris & Phyloblatta. — Handlirsch, A., 3.
Phyllobrissus.—Lambert, J.
Phylloceras.—Popovići-Hatzeg, V.
Phylloceratidæ, classification of.—Prinz, G., 2; Uhlig, V., 3.
Phyllocœnia.—Angelis d'Ossat, G. de.
Phyllograptus.—Barrois, C., 3.
Phyllotheca. — Arber, E. A. N.; Nathorst, A. G.
Pián, Upper (Hungary).—Halaváts, J.
Piatigorsk (Caucasus). — Derwies, V. de.
Piave Valley (Venetia) glaciation. — Toniolo, R. A., 2.
Picardy (France).—Bardou, P.; Briquet, A., 2 & 3; Gosselet, J., 4, 5, 8, & 10; Hermary, J., 1 & 2; Houllier, P.; Rabelle, —; Rutot, A., 4.
Pickering, Vale of (Yorks).—Strangways, C. F.; Sewell, J. T., 1 & 2.
Picrite, Yeniseï Gov.—Meister, A.
Pictou coalfield (N.S.).—Poole, H. S.
Piediluco (Umbria).—Lotti, B., 2.
Piedimonte Etneo (Catania).—Scalia, S., 2.
Piedmont (Italy).—Argand, E.; Bellini, R.; Colomba, L., 1–3; Figari, L.; Franchi, S., 1–4; Mattirolo, E.; Novarese, V., 1 & 2; Preiswerk, H.; Prever, P. L., 2; Roccati, A., 1–5; Rovereto, G., 2; Sacco, F., 2, 3, 5, 7, & 8; Zambonini, F., 4.
—— district (Ind. & Pa.).—Bascom, F.; Mathews, E. B.

Pierre-à-Voir massif (Valais).—Duparc, L.
Pietrasanta (Tuscany). — Martelli, A., 4.
'Pietre verdi.'—Franchi, S., 3 & 5; Mattirolo, E.; Novarese, V.
Pilbara (W. Austral.).—Lindgren, W., 3; Maitland, A. G., 2 & 3.
Pilandsberg (Transvaal).—Molengraaff, G. A. F., 2.
Pilla, L., *Obit.*—*See* Canavari, M.
Pillet, L., geological work of.—*See* Révil, J.
Pinakodendron.—Kidston, R., 2.
Pinites.—Krasser, F., 2.
Pinna.—Cragin, F. W.; Harbort, E.; Schuetze, E.; Woods, H.
Pinniped, Miocene.—Condon, T.
Pioche Mts. (Nev.).—Pack, F. J.
Piora Lakes (Ticino).—Garwood, E. J.
Pipes, molybdenite.—Andrews, E. C.
Pirallolite.—Roccati, A., 2.
Pishin (Baluchistan).—Diener, C., 4.
Pisolitic barytes.—Wuestner, H.
—— iron-ore.—*See* Oolitic iron-ore.
Piszke (Hungary).—Prinz, G., 4.
Pitchstones, Sgùrr of Eigg.—Harker, A., 3.
Piura (Peru).—Adams, G. I.
Pizzul, Mt. (Carnic Alps).—Vinassa de Regny, P., 6.
Placer-gold, Alaska.—Moffit, F. H.; Prindle, L. M.
——, Congo Free State.—Buttgenbach, H., 5.
——, origin of.—Lovewell, J. T.
Placer-mining, Alaska.—Purington, C. W.
——, Klondyke.—Tyrrell, J. B.
Placopsilina.—Chapman, F., 5.
Plagioblatta.—Handlirsch, A., 3.
Plagioclase.—Becke, F., 5; *see also* Felspar.
Plagiolophus.—Stehlin, H. G., 2.
Plains, Central United States.—Darton, N. H., 2.
Plan-de-Nette (Savoy).—Kilian, W., 4.
Planorbis.—Gutzwiller, A.
Planorbulina.—Bullen, R. A.
Plants, Carboniferous.—Cornet, J., 6; Dun, W. S.; Foureau, F.; Gœbel, F.; Gortani, M.; Grand'Eury, F. C., 1–3; Karpinski, A., 2; Kidston, R., 1–3; Nathorst, A. G., 2; Renier, A., 1 & 2; Scott, D. H., 2 & 3; Seward, A. C.; Stenzel, K. G.; Stopes, M. C.; Vinassa de Regny, P., 4 & 6; Watson, D. M. S., 2; Zalesski, M., 1 & 2.
——, Cretaceous. — Berry, E. W., 2; Krasser, F.; Richter, P. B.; Seward, A. C., 2; Ward, L. F.
——, Culm.—Grand'Eury, F. C., 3.
——, Devonian.—Schwarz, E. H. L., 8.
——, evolution as shown by fossil. — Krašan, F.
——, geological distribution of.—Berry, E. W.; Smith, W. G.
Plants, Jurassic.—Benham, W. B.; Krasser, F., 2; Lignier, O.; Nathorst, A. G., 4 & 5; Newton, R. B.; Seward, A. C., 2; Ward, L. F.; Wieland, G. R.; Yabe, H.
——, microsporangia of.—Kidston, R.
——, peat-bog.—Post, L. von.
——, Permo-Carboniferous.—Arber, E. A. N.; Chapman, F., 4; Nathorst, A. G.
——, Quaternary.—Andersson, J. G., 4; Chapman, F.; Hagstrœm, O.; Holst, N. O.; Kendall, P. F., 2; Lewis, F. J., 1 & 2; Witte, H.
——, Rhætic.—Zeiller, R.
——, Tertiary. — Bonnet, E., 2 & 3; Engelhardt, H.; Halle, T. G.; Palibin, I. V., 1 & 2; Perkins, G. H.; Salle, E.
——, Triassic. — Arber, E. A. N., 2; Benecke, E. W., 3; Kerner, F. von, 3; Ward, L. F.
——. *See also* Wood, fossil.
Platanus.—Berry, E. W., 2.
Platinum, Brazil.—Hussak, E., 6.
——, occurrence of.—Johnstone, S. J.
——, Urals.—Katterfeld, G. S.
Platinx.—Eastman, C. E.
Platyceras.—Clarke, J. M., 5.
Platyspondylus.—Foureau, F.
Plauen (Saxony).—Hartung, H.
Plauenscher Grund (Saxony). — Washington, H. S., 2.
Playfair & Lamarck, 1802.—Geikie, Sir A., 2.
Plectella.—Lamanski, V. V.
Plectoceras.—Whiteaves, J. F., 2.
Pleistocene, Anglo-Belgian. — Lorié, J., 3.
—— lake, Portugal.—Hull, E., 2.
——. *See also* Quaternary, *&c.*
Plesiophyllia.—Koby, F.
Plesiosaurs, N. American.—Williston, S. W., 2.
Plesiosaurus.—Osburn, R. C.
Plesiotriton.—Oppenheim, P.
Plessur Alps (Grisons).—Hœk, H.
Pleuracanthus.—Jækel, O., 2.
Pleurocora.—Felix, J.
Pleurosmilia.—Angelis d'Ossat, G. de.
Pleurotoma.—Oppenheim, P.
Pleurotomaria. — Cragin, F. W.; Dainelli, G.; Harbort, E.; Vinassa de Regny, P., 6.
Plicatula.—Cragin, F. W.
Pliocene, Cromer. — Harmer, F. W.; Lorié, J., 2 & 3; Reid, C., 2.
——, Tegelen.—Harmer, F. W.; Lorié, J., 2 & 3.
——, Ticino.—Blumer, S.
——. *See also* Tertiary.
—— fjord, Breggia Valley. — Heim, A., 3.
Pliomera.—Reed, F. R. C., 4; Wiman, C.
Plomo (Colo.).—Gunther, C. G.
Plougasnou (Britanny). — Cayeux, L., 4.

Plynlimmon District (Caerdigan).—Jones, O. T.
Pocahontas Co. (U.S.A.). — Macbride, T. H.
Podolia (Russian & Austrian).—Siemiradzki, J. von, 1 & 2.
Podozamites.—Krasser, F., 2; Newton, R. B.
Poitiers (France).—Breuil, H.; Welsch, J., 1–4.
Pojén (Transylvania).—Schafarzik, F.
Pokolbin limestone, New South Wales. —Chapman, F., 5.
Poland.—Siemiradzki, J. von, 3.
Polena (Hungary).—Posewitz, T., 2.
Poleumita.—Clarke, J. M., 7.
Pollicipes.—Woodward, H., 6.
Polycotylus.—Williston, S. W., 2.
Polycreagra.—Handlirsch, A., 3.
Polycyclus.—Hyatt, A.
Polydesmia.—Lorenz, T., 2.
Polyetes & *Polyetoblatta.*—Handlirsch, A., 3.
Polymorphina & *Polystomella.*—Bullen, R. A.
Polyne Quarry (Cornwall).—Green, U.
Polypora.—Hennig, A.
Pomatias.—Gutzwiller, A.
Pomerania (Prussia).—Deecke, W., 1, 2, & 5; Schmidt, M.
Pomeroy (Tyrone). — Fearnsides, W. G.
Pompeii (Italy).—Lacroix, A., 12.
Pondoland (S.A.).—Crick, G. C.
Pont de l'Abime (Savoy).—Deslarmes, J., 2.
Pontian.—*See* Tertiary.
Ponza Is. (Italy).—Galdieri, A.
Popanoceras.—Hyatt, A.
Popocatepetl (Mexico).—Guild, F. N.
Porambonites.—Lamanski, V. V.
Poroblattina.—Handlirsch, A., 3.
Porosity & pressure, underground water &.—Baldwin-Wiseman, W. R.
Porphyrite, Queensland. — Jensen, H. I., 2.
Porphyritic granite, Hesse. — Chelius, C.
—— tuff, Waldenberg.—Dathe, E., 3.
Porphyry, Ambon.—Verbeek, R. D. M.
——, Argentina.—Bodenbender, G.
——, Argyll.—Hill, J. B., 2.
——, Brazil.—Evans, J. W., 2.
——, Corsica.—Deprat, J., 4.
——, Germany.—Bruhns, W.
——, Greenland.—Belowski, M.
——, Kilimanjaro.—Finck, L.
——, microscopic structure of.—Lœwinson-Lessing, F., 9.
——, Namur.—Mathieu, É.
——, New Hebrides.—Mawson, D.
——, Quenast.—Hankar-Urban, A.
——, Tyrol.—Wolff, F. von.
Portage Group, New York.—Whitfield, R. P.
Porthalla & Porthluney (Cornwall).—Green, U.
Porthochelys.—Hay, O. P., 3.
Portland-cement slag, petrography of.—Hermann, P.
Portugal.—Hlawatsch, C.; Hull, E., 2.
Portuguese E. Africa.—Couyat, J., 2.
Posen (Prussia).—Jentzsch, A., 6.
Posidonia. — Frech, F., 2; Michael, R., 2.
—— in basalt, Baden.—Becker, E.
Postale, Mte. (Venetia). — Eastman, C. R.
Postalia.—Dainelli, G.
Pot-holes, California.—Gilbert, G. K., 2.
——, Gothland.—Hamberg, A., 2.
——, Ingleborough.—Broderick, H.
Potamides.—Oppenheim, P.
Potash-salts, Germany.—Bruhns, W.; Currie, J., 2; Kœnen, A. von.
Potherioceras.—Clarke, J. M., 7.
Potier, A., *Obit.*—*See* Gosselet, J., 6.
Potzberg (Rh.-Bavaria). — Burckhardt, K.; Duell, E.; Reis, O. M., 3.
Pozoga (Transylvania).—Kadić, O., 2.
Pozzuoli (Naples).—Cool, H.
Præcaprina.—Pâquier, V., 2.
Prælucina.—Scupin, H.
Prägraten (Tyrol). — Westergård, A. H., 3.
Pre-Cambrian, Colorado.—Ball, S. H.
——, Finland.—Jakovlev, S. A.; Ramsay, W., 4.
—— nomenclature, N. America. — Coleman, A. P., 3.
——, Ontario.—Miller, W. G., 1–3.
Precious stones, Ceylon. — Coomáraswámy, A. K., 2.
—— ——, Germany.—Bruhns, W.
—— ——, Madras Pres. — Fermor, L. L., 5.
—— ——, Otago.—Thomson, J. A.
—— ——, Victoria.—Kitson, A. E.
—— ——. *See also* United States, Min. Resources.
Predazzo (Tyrol).—Block, J.
Prestwichia.—Baldwin, W., 2.
Pretoria (Transvaal). — Hall, A. L., 1, 3–5; Molengraaff, G. A. F.
Pretoria Series, Transvaal.—Hall, A. L., 5; Holmes, G. G.; Molengraaff, G. A. F.; Steart, A. F.
Prieska (Cape Colony).—Hatch, F. H., 3; Rogers, A. W., 2; Schwarz, E. H. L., 9; Sjögren, O., 4.
Primates, Tertiary.—Loomis, F. B.
Primel (Britanny).—Cayeux, L., 4.
Prince-Albert District (Cape Colony).—Sandberg, C. G. S.
Prince-Edward Island (Canada).—Bell, R., 2.
Prince-William Sound (Alaska). — Grant, U. S.
Princeton-University Expeditions to Patagonia.—Sinclair, W. J.
Prionastræa.—Gregory, J. W., 3.
Procolophon.—Thyng, F. W.
Procyon.—Gidley, J. W., 2.

Productus. — Foureau, F. Gortani, M., 5; Keidel, H.; Koken, E., 3; Vaughan, A.; Vinassa de Regny, P., 6.
Progenentomum.—Handlirsch, A., 3.
Propalæotherium.—Stehlin, H. G., 2.
Prophilanthus.—Cockerell, T. D. A.
Propithecus.—Grandidier, G.
Proptychites.—Hyatt, A.
Prorosmarus.—Berry, E. W., 3.
Prosodacna.—Seninski, K., 2.
Prosphingites.—Hyatt, A.
Prothylacynus.—Sinclair, W. J.
Protocalamites.—Gœbel, F.
Protophragmoceras.—Clarke, J. M., 7.
Protostephanus.—Cockerell, T. D. A.
Protriton.—Thévenin, A.
Provence (France).—Grossouvre, A. de; Guébhard, A., 5; Kilian, W., 2 & 6; Replin, J.; Toucas, A; *see also* Var, *&c.*
Prowersose, Colorado.—Cross, W.
——, Maine (U.S.A.).—Bastin, E. S.
Prozeuglodon.—Andrews, C. W.
Prunoides.—Perkins, G. H.
Prussia.—Linstow, O. von, 2; Walther, J.
—— eoliths in.—Wiegers, F., 1–4.
——. *See also* Brandenburg, Glacial deposits, Moraines, *&c.*
—— (E.).—Braun, G.; Krause, P. G.
—— (W.).—Krause, P. G.; Jentzsch, A., 2, 4, & 5.
Prussian lakes.—Jentzsch, A.
Psaronius.—Arber, E. A. N.; Stenzel, K. G.
Pseudocidaris.—Lambert, J.
Pseudocythere.—Neviani, A., 2.
Pseudogerarus & Pseudohomothetus.—Handlirsch, A., 3.
Pseudolestodon.—Rautenberg, M.
Pseudomelania.—Cragin, F. W.
Pseudomonotis.—Gortani, M., 5; Renz, C., 2.
Pseudomorphs. — Cornu, F.; David, T. W. E., 2; Graham, R. P. D.; Pearce, R., 2; Schneider, O.
Pseudosageceras.—Hyatt, A.
Pteridomylacris.—Handlirsch, A., 3.
Pteridospermeæ, Carboniferous. — Kidston, R., 1 & 3.
Pterinea.—Scupin, H; Whiteaves, J. F.
Pterinopecten, Devonian. — Clarke, J. M., 5.
Pterodactylidæ, Jurassic.—Gilmore, C. W., 2.
Pterodactylus.—Plieninger, F., 2 & 3.
Pterodon & Pterosphenus.—Andrews, C. W.
Pterosauria, Jurassic.—Plieninger, F., 2–4.
Pterygotus.—Seemann, F.
Ptilograptus.—Ruedemann, R.
Ptychites.—Hyatt, A.
Ptychogyra.—Harbort, E.
Ptychomya.—Cragin, F. W.; Harbort, E.
Ptychospira.—Reed, F. R. C., 2.
Puebla (Mex.).—Ordoñez, E.
Puech d'Alzou (Aveyron).—Marty, P.
Puella.—Scupin, H.
Puntaloni (I. of Pago).—Waagen, L.
Pupa.—Friedberg, W. S. von; Gutzwiller, A.
Purbeck Beds, Berne.—Trœsch, A.
—— ——, Dorset.—Chapman, F., 2.
—— ——, Sussex.—Whitaker, W.
Purbeck, I. of (Dorset).—Strahan, A.
Purcell Mts. (B.C.).—Daly, R. A., 3.
Purley Oaks (Surrey).—Stanley, W. F.
Purpurite.—Graton, L. C.
Purpuroidea.—Choffat, P.
Püspökfürdó (Hungary).—Kormos, T.
Putna (Rumania).—Nicolau, T.
Puy-de-Dôme (France).—Boule, M., 2; Capitan, L.; Glangeaud, P.; Stehlin, H. G.; *see also* Auvergne.
Pycnodonts, Jurassic-Tertiary. — Hennig, E.
Pygites & Pygope.—Buckman, S. S.
Pygorhynchus.—Krumbeck, L.
Pygurus.—Lambert, J.
Pyramidella.—Pethœ, J.
Pyrenees (French). — Belloc, É.; Bertrand, L.; Carez, L.; Prever, P. L., 2; Viré, A., 2.
—— (Spanish).—Chevalier, M.
Pyrites, Arizona.—Reid, J. A.
——, Bosnia.—Mauritz, B.
——, Erzgebirge (Saxon). — Baumgærtel, B.
——, Harz.—Schleifenbaum, W.
——, Hungary.—Papp, K. von; Zimanyi, K.
——, Molteno quartzite-boulder with.—Schwarz, E. H. L., 7.
——, Pennsylvania.—Travis, C.
——, S. Spain.—Preiswerk, H., 2; Wetzig, B.
Pyromorphite, New South Wales. — Mingaye, J. C. H., 2.
——, Saône-et-Loire.—Gaubert, P., 4.
Pyropissite, British East Africa. — Potonié, H., 2.
Pyrrhotite.—Kaiser, E.
——, nickeliferous. — Campbell, W., 2.

Quarries, British Is. — *See* Great Britain. Home Office.
——, rock-movements & falls in.—Hankar-Urban, A.
Quartz.—Day, A. L.; Gonnard, F., 3 Kœnigsberger, J., 2; Repossi, E.
—— -biotite-schists, New Zealand.—Bell, J. M., 3.
——, crystallography of.—Spezia, G.
—— -crystals, Carboniferous Limestone with.—Maillieux, E.
—— —— in slags.—Quensel, P. D., 2.
——, etched figures &.—Muegge, O., 2.
—— -felsite, Peake (N.S.W.). — Larcombe, C. O. G.
——, fluid-cavities in.—Kœnigsberger, J.

Quartz-porphyry, Argyll.—Hill, J. B., 2.
—— ——, Corsica.—Deprat, J., 4.
—— ——, Jubbulpore.—Fermor, L. L., 2.
—— ——, Tyrol.—Wolff, F. von.
——, synthesis of.—Berthelot, A.
—— -veins, Alaska.—Spencer, A. C., 2 & 3.
—— ——, Nevada.—Hastings, J. B.; Spurr, J. E., 5.
Quartzite-boulder, Molteno Sandstone.—Schwarz, E. H. L., 7.
—— pebbles, Yorkshire.—Stather, J. W., 3.
Quartzose gravel, Anhalt.—Cornu, F., 2.
—— ——, Lane End, Reading Beds with.—White, H. J. O., 2.
Quaternary deposits, Austria.—Abel, O., 2; Fugger, E., 4.
—— ——, Belgium.—Delheid, E., 2; Mourlon, M., 4; Rutot, A., 5.
—— ——, Cambridgeshire.—Bullen, R. A., 2.
—— ——, Catania.—Scalia, S., 2.
—— ——, Crete.—Bullen, R. A.
—— ——, Donetz Basin.—Borisyak, A., 2.
—— ——, Finland.—Ramsay, W., 2, 3, & 5.
—— ——, Germany (N.).—Gagel, C., 3 & 9; Grupe, O.; Jentzsch, A.; Martin, J.; Schrœder, H., 3; Schucht, F.; Siegert, L.; Wiegers, F., 1–4; Wolff, W.
—— ——, Godávari R.—Pilgrim, G. E.
—— ——, Hesse.—Freudenberg, W., 2.
—— ——, Hungary.—Horusitzky, H., 3.
—— ——, Illinois.—Anderson, N. C.; Udden, J. A.
—— ——, Iowa.—Anderson, N. C.; Udden, J. A., 1 & 2.
—— ——, Man (I. of).—Reade, T. M., 4.
—— ——, Martha's Vineyard I.—Bowman, J.
—— ——, Massachusetts.—Fuller, M. L., 2.
—— ——, Nantucket I.—Wilson, J. H.
—— ——, Netherlands.—Calker, F. J. P.
—— ——, Nord.—Rutot, A., 5.
—— ——, Norfolk, &c.—Lorié, J., 3.
—— ——, Normandy.—Babeau, L.
—— ——, Paris.—Pujet, R.
—— ——, Rügen I.—Deecke, W., 6.
—— ——, Savoy.—Douxami, H., 4; Vivien, J.
—— ——, Schaffhausen.—Meister, J.
—— ——, Scotland.—Geikie, J.
—— ——, Silesia.—Guerich, G.
—— ——, Sweden.—Andersson, J. G., 4.
Quaternary deposits, Sylt.—Geinitz, E.; Petersen, J.; Stolley, E.
—— ——, Ticino.—Blumer, S.; Schmidt, C., 2.
—— ——, Tunis.—Lamothe, R. de.
—— ——, Umbria.—Ugolini, R.
—— ——, Venetia.—Toniolo, R. A.
—— ——, Yorkshire.—Sheppard, T., 1–5.
—— ——. *See also* Drift, *&c.*
—— period, changes of the earth's axes & the.—Péroche, J.
—— ——, duration of the.—Rutot, A., 2.
Quebec (Canada).—Bell, R., 3 & 4; Dresser, J. A., 1 & 2; Wilson, A. W. G.
Quebecia.—Walcott, C. D., 2.
Quedlinburg (Germany).—Richter, P. B.
Queen Charlotte Is. (B.C.).—Ward, L.
Queen's Co. (Ireland).—Brenan, G.
Queensland.—Blake, G. S., 3; Dunstan, B.; Henderson, J. B.; Jensen, H. S., 2; *see also* Queensland, Geol. Surv.
Quenast (Brabant).—Hankar-Urban, A.; Lagrange, E.
Quercite.—Fedorov, E. von, 3.
Querétaro (Mex.).—Villaseñor, F. F.
Quicksilver, Carniola.—Muellner, A., 2.
——, Germany.—Bruhns, W.
—— mineral, a new.—Hillebrand, W. F.
——, Rhenish-Bavaria.—Burckhardt, K.; Duell, E.; Reis, O. M., 3.
——, Servia.—Fischer, H.
——, Texas.—Philips, W. B.; Turner, H. W.
——. *See also* Cinnabar.

Raccoon, Quaternary.—Gidley, J. W., 2.
Radein (Styria).—Rumpf, J.
Radioactivity, soils &.—Borne, G. von dem; Severin, E.
——, thorium-minerals &.—Boltwood, B. B.
——, Vesuvian ash.—Nasini, R.
——, volcanoes &.—Dutton, C. E.
——. *See also* Minerals.
Radiolaria, Condrò tripoli.—Cocco, L.
Radiolites.—Toucas, A., 2; Wegner, T.
Radium, earth &.—Eve, A. S., 2; Fisher, O., 2 & 3; Joly, J.; Palmer, B. J.; Reade, T. M.; Strutt, R. J.
—— minerals.—Eve, A. S.; Rutherford, E.
Radstock (Somerset).—Watson, D. M. S.
Rafré, Mt. (Graian Alps).—Stella, A.
Rain, water-level &.—Gosselet, J., 7.
Raised beaches, Alaska.—Tarr, R. S., 4.
—— ——, Cornwall.—Whitley, D. G.
—— ——, Hessle.—Crofts, W. H.
—— ——, ice &.—Braun, G., 3.
—— ——, Iceland.—Braun, G., 2; Knipovich, N.

Raised beaches, Michigan. — Goldthwait, J. W.; Taylor, F. B.
—— ——, Norway.—Rekstad, J.; Suess, E., 2.
—— ——, Norrbotten.—Sjœgren, O.
—— ——, Ontario.—Bell, R., 2.
—— ——, Scotland.—Jamieson, T. F.
Rajputana (India).—Fermor, L. L.
Rakató (Transylvania).—Roth von Telegd, L., 2.
Rangoon (Burma).—Pilgrim, G. E., 2.
Rapakivi granite, Finland. — Ramsay, W., 4.
Rapitoma.—Cossmann, M., 3.
Rare earths.—Ongaro, G.
Raritan Bay (N.J.).—Berry, E. W., 2.
Rashleigh collection of British minerals.—Rashleigh, P.
Rastel Grab (Dalmatia).—Schubert, R. J., 5.
Rauracian, Swiss Jura.—Bakalov, P.
Rayleigh (Essex).—Salter, A. E., 3.
Reading Beds, Bucks.—White, H. J. O., 2.
Recoaro (Italy).—Maddalena, L.
Red Beds, Colorado.—Cross, W., 2.
Red Mountain (Ariz.).—Atwood, W. W.
—— ——, Ouray Co. (Colo.).—Schwarz, T. E.
Redbank Sands, New Jersey.—Willcox, O. W.
Redcar (Yorks).—Herries, R. S., 1 & 2.
Redonian, Normandy.—Dollfus, G. F., 5.
Reefs, Witwatersrand.—Johnson, J. P., 6; *see also* Coral & Stone.
Refraction, index of.—Pearce, F.; Smith, G. F., 2.
Regenstauf (Bavaria).—Wanderer, K.
Regnitz Valley (Bavaria).—Neumeister, P.
Reindeer, palæolithic station near Freiburg i. Br.—Steinmann, G., 2.
Reinerz-Cudowa Ry. (Glatz).—Flegel, K.
Rekenyefalu (Hungary).—Gesell, A.
Renault, B., *Obit.*—*See* Scott, D. H.
Renevier, E., *Obit.*—*See* Anon., 13; Major, C. I. F.; Rutot, A., 8; Vacek, M., 2.
Rennes (Britanny).—Pavot, —.
Rensselæria.—Reed, F. R. C., 2; Schwarz, E. H. L., 8.
Reptelea & Reptomultelea.—Lang, W. D.
Reptilia, Bohemian fossil.—Bayer, F.
——, Cretaceous.—Brown, B.; Dollo, L.; Gilmore, C. W.; Hooley, R. W.: Lull, R. S.; Nopcsa, F. Baron (*fil.*); Riggs, E. S.; Williston, S. W., 2 & 3.
——, Jurassic.—Dollo, L.; Gilmore, C. W., 2; Holland, W. J.; Huene, F. von, 2 & 4; Osborn, H. F., 2; Plieninger, F., 2–4; Stolley, E., 9; Thyng, F. W.; Woodward, A. S.
——, limb-modifications of aquatic.—Osburn, R. C.
——, Permian.—Osborn, H. F., 3; Stappenbeck, R.
——, Permo-Carboniferous.—Broom, R.; Jækel, O., 3.
Reptilia, Permo-Triassic.—Broom, R., 1–6; Jækel, O., 1 & 2; McGregor, J. H.
——, squamosal bone in.—Thyng, F. W.
——, Tertiary.—Andrews, C. W.; Janensch, W.
——, Triassic.—Huene, F. von, 1 & 3; Stappenbeck, R.
——. *See also* Dinosauria, Chelonia, &c.
Reptilian footprints, Permian.—Pabst, W.
Reticularia.—Keidel, H.; Kindle, E. M.; Vaughan, A.
Rév-Biharkalota (Transylvania).—Szontagh, T. von.
Reval (Esthonia).—Lamanski, V. V.
Revard, Mt. (Savoy).—Gimet, F. S.; Lachéroy, —; Révil, J., 10.
Rézbánya (Hungary). — Szadeczky, J. von.
Rhabdocarpus.—Kidston, R., 2.
Rhabdoceras. — Hyatt, A.; Janensch, W., 2.
Rhacophyllites.—Diener, C., 4.
Rhacopteris.—Dun, W. S.
Rhætian Alps.—Rothpletz, A., 2; *see also* Alps.
Rhætic.—Devon & Dorset.—Richardson, L., 7.
——, Gloucestershire.—Paris, E. T.
——, Lombardy.—Mariani, H.
——, Persia.—Zeiller, R.
Rhagatherium.—Andrews, C. W.
Rhamphorhyncus.—Gilmore, C. W., 2.
Rhein-Hesse.—*See* Hesse.
Rhenish Bavaria. — Burckhardt, K.; Duell, E.; Reis, O. M., 3.
Rhenish Prussia.—Dorlodot, L. de, 3; Einecke, G.; Lohest, M., 4; Pohlig, H.; Renz, C., 3.
Rhenish-Westphalian coalfield.—Krisch, P.
Rhenocrinus.—Schmidt, W. E.
Rhine R. between Baden & Basel.—Greppin, E.
Rhine Valley.—Rutot, A.
—— ——, faults, Weinheim. — Freudenberg, W., 2.
—— ——, terraces, Baden.—Freudenberg, W.
Rhinoceros.—Flores, E.; Sacco, F., 9; Schrœder, H., 2; Toula, F., 2; Ugolini, R.
Rhipidomella.—Kreidel, H.
Rhiptozamites.—Krasser, F., 2.
R'hira Desert (Algeria).—Fleury, —.
Rhizomopteris.—Nathorst, A. G., 4.
Rhizophyllum.—Shearsby, A. J.
Rhodesia (S.A.).—Beck, R., 3; Brackenbury, C.; Flett, J. S.; Gregory, J. W., 5–7; Johnson, J. P., 3; Mennell, F. P., 2–4; Parsons, C. E.
Rhodocrosite.—Millosevich, F.
Rhodonite.—Roccati, A., 3.
Rhomb-porphyry, Kilimanjaro.—Finck, L.

Rhône Valley, terraces below Lyons.—Lamothe, R. de, 2.
Rhymney Valley (S. Wales).—Galloway, W.
Rhyncholithes.—Till, A.
Rhynchonella.—Ascher, E.; Buckman, S. S., 2; Gentil, L., 3; Martelli, A., 3.
Rhynchospira.—Whiteaves, J. F.
Rhyolite, Mexico.—Guild, F. N.
——, Namur.—Mathieu, É.
——, Nevada.—Spurr, J. E., 2.
——, New Zealand.—Sollas, W. J., 3.
——, Queensland.—Jensen, H. I., 2.
——, Somaliland.—Arsandaux, H.
Rhytidodon.—McGregor, J. H.
Ribemont (Picardy).—Rabelle, —.
Richthofen, F. von, *Obit.*—*See* Bertrand, J.; Dalla Vedova, G.; Drygalski, E. von, 2; Lóczy, L. von; Marr, J. E.; Tiessen, E.; Tietze, E. E. A.; Voit, C.; Wahnschaffe, W.
Riddarhyttan (Sweden).—Lindstrœm, G.
Riebeckite.—Termier, P., 3.
—— rocks, origin of.—Murgoci, G. M.
Riesengebirge (Silesia).—Milch, L.
Rimella.—Oppenheim, P.
Rinxent (Pas-de-Calais).—Hamy, E. T.
Rio-Grande Valley (Tex.).—Slichter, C. S.
Ripidolite.—Manasse, E., 2.
Ripple-marks, Bavarian Oligocene.—Stuchlik, H.
—— ——, formation of.—Deecke, W., 4.
Rissoina.—Ascher, E.
Ristori, G., *Obit.*—*See* Stefani, C. de.
Ritom, Lake (Ticino).—Garwood, E. J.
River-deposits, rate of sedimentation.—Christen, T.
—— -robbing.—Briquet, A., 3 & 5; Capedar, G.; Carter, W. L., 4.
—— -terraces, formation of.—Sevastos, R.
Rivers, Cape Colony.—Schwarz, E. H. L.
——, India.—Vredenburg, E.
——, silting up of.—Petch, T.
——, subterranean, Ardèche.—Raymond, P.
——, Turkestan.—Huntington, E.
Road-metal.—Lovegrove, E. J.
Robin-Hood's Bay (Yorks).—Herries, R. S., 1 & 3.
Robinson District (Nev.).—Lawson, A. C.
Roche, A., *Obit.*—*See* Bonnet, E.
Rock-decomposition by water-action.—Cushman, A. S.
—— -elasticity, seismology &.—Kusakabe, S., 2 & 3.
—— -metamorphism, W. Australia.—Lindgren, W., 3.
—— -movements in mines.—Hankar-Urban, A.
—— -phosphatization by birds.—Lacroix, A., 7.
—— -pressure, thermal waters &.—Kœnigsberger, J., 4.
—— -salt, Rumania.—Costachescŭ, N.
Rock-sections, microscopic.—Hilton, H.
Rock-weathering.—Berg, G.; Hilgard, E. W.; Rideal, S.; *see also* Erosion, *&c.*
Rocks, black coating on.—Evans, J. W., 2.
——, hardness of.—Lovegrove, E. J.
——, plasticity of.—Adams, F. D., 2 & 3.
——, rigidity of.—Kusakabe, S.
——, water-levels in.—Andrimont, R. d', 1 & 2.
Rocky Mts. (N. Am.).—Keyes, C. R., 2; Ritter, E. A.; Sherzer, W. H.
Rome (Italy).—Angelis d'Ossat, G. de, 2; Cappelli, G. B.; Clerici, E., 2; Moderni, P.; Napoli, F.; Silvestri, A., 1 & 2; Verri, A.
Rossia (Hungary).—Szontagh, T. von, 2.
Rösteberge (Harz).—Kaiser, E., 2.
Rotalia.—Bullen, R. A.
Rothau (Vosges).—Mueller, F. T.
Roxbury Conglomerate, Mass.—Mansfield, G. R., 2.
Royal Commission on Coal-Supplies, 1901–05.—Greenwell, A.
Royston (Herts).—Bonney, T. G.
Rozsnoyó (Hungary).—Gesell, A.; Kápolna, V. P. von; Reguly, E.
Rozzo (Istria).—Manek, F.
Ruby, India.—Holland, T. H., 2.
Ruby-rock, Leydsdorp.—Tweddill, S. M.
Ruda (Dalmatia).—Kerner, F. von, 3.
Rüdersdorf (Brandenburg).—Menzel, H., 2.
Rudistæ, Cretaceous.—Pâquier, V., 2; Snethlage, E.
Rügen I. (Prussia).—Deecke, W., 6.
Rum I. (Hebrides).—Harker, A., 1 & 4.
Rumania.—Andrussov, N.; Costachescŭ, N.; Mrazec, L.; Murgoci, G. M., 2; Nicolau, T., 1–3; Popovićci-Hatzeg, V.; Severin, E.; Simionescŭ, I.
Runswick Bay (Yorks).—Herries, R. S., 1 & 3.
Rush (Co. Dublin).—Matley, C. A.
Russell, I. C., *Obit.*—*See* Anon., 14; Lombard, W. P.; *&* Pirsson, L. V.
Russia, Arctic.—Ramsay, W., 2 & 5; *see also* Archangel, Finland, *&c.*
——, borings for water in.—Sintzov, I., 2.
—— (S.).—Andrussov, N., 1 & 2; Bogachev, V.
——. *See also* Crimea, Donetz, Jurassic, Urals, *&c.*
Rustella.—Walcott, C. D., 2.
Rustenburg (Transvaal).—Hall, A. L., 3 & 4; Molengraaff, G. A. F., 2.
Ruszkabánya (Transylvania).—Nopcsa, F., Baron (*fil.*).
Rutile.—Baumhauer, H.
Rutland.—Thompson, B., 3.
Rzeszów (Galicia).—Friedberg, W. S. von, 2.

Saale R. (Prussia).—Picard, E.; Wuest, E.

Saarbrücken coalfield, extension into French Lorraine.—Bergeron, J.; Laur, F.
Saghatherium.—Andrews, C. W.
Sahara (N. Africa).—Chudeau, R., 1 & 2; Foureau, F.; Haug, É., 2; Peron, A., 3.
Saigneville (Picardy).—Gosselet, J., 10.
St. Andreasberg (Hanover).—Bode, A.
St. Austell (Cornwall).—Williams, R. H.
St. Bernard Quay (Paris).—Pujet, R.
St. Cassian Beds, Tyrol.—Koken, E., 4.
St. Clears (Caermarthen).—Evans, D. C.
St. Croix R. (U.S.A.).—Upham, W.
St. Étienne (Loire).—Termier, P., 5.
St. Francis Valley (Quebec).—Dresser, J. A.
St. Gall (Switzerland).—Heim, A., 5; Hœk, H., 2; Schmidt, C., 2.
St. Gariel Mts. (Cal.).—Arnold, R., 2.
St. Gaultier (Indre). — Garde, G.; Launay, H. de.
St. Genest-Champanelle (Puy-de-Dôme).—Capitan, L.
St. Germain-en-Laye (Seine-et-Oise).—Embry, P.
St. Gotthard Massif.—Garwood, E. J.; Mariani, E., 3.
St. Hugon, Chartreuse de (Savoy).—Davin, L.
St. Ives Bay (Cornwall).—Whitley, D. G.
St. Jean-de-Maurienne (Savoy).—Révil, J., 8.
St. Jean Peninsula (Alpes-Maritimes).—Maury, E.
St. Louis limestone, Kentucky.—Ulrich, E. O., 2.
St. Lucia (W.I.).—Hovey, E. O., 3.
St. Maixent (Deux Sèvres).—Welsch, J., 1–4.
St. Michel, Mt. (Savoy).—Hollande, D., 2; Vivien, J., 2 & 4.
St. Monans (Fife).—Crampton, C. B.
St. Pierre (Martinique).—Lacroix, A., 12.
St. Pierre-d'Entremont (Savoy).—Douxami, H.
St. Pierre-de-Maillé (Poitiers).—Breuil, H.
St. Symphorien (Hainault).—Greindl, Baron L.
St. Thomas I. (Gulf of Guinea).—Lacroix, A., 8.
St. Vallier (Alpes-Maritimes).—Guébhard, A.; Koby, F.
St. Véran (Hautes-Alpes). — Termier, P., 3.
St. Vincent (W.I.).—Hovey, E. O.
Sajo, Lower (Hungary).—Zimányi, K., 2.
Salem (Ky.).—Ulrich, E. O., 2.
Salentine Peninsula (Apulia).—Stefano, G. di.
Salisbury Plain (Wilts).—Jukes-Browne, A. J.
Salix.—Berry, E. W., 2.
Salt, Aargau.—Muehlberg, F., 2.
——, blue crystals of.—Focke, F.
——, Cheshire.—Pocock, T. I.
Salt, Chile.—Herrmann, A.
—— crystals, Vesuvius.—Brauns, R.
—— deposits, origin of.—Van't Hoff, J. H., 1–4.
——, Germany.—Bruhns, W.; Currie, J., 2; Kœnen, A. von.
——, India.—Holland, T. H., 2.
—— marshes, Humber.—Petch, T.
——, Ohio.—Bownocker, J. A., 1 & 2.
——, petroleum &.—Harperath, L.
——, Rumania.—Murgoci, G. M., 2.
——, Transcaspian District. — Thiess, F.
——. *See also* Potash, *&c.*; *&* United States, Min. Resources.
Salt-Cay (Jamaica).—Freeman, W. G.
Salt-Range (India).—Schuchert, C., 2.
Salt R. (Ariz.).—Lee, W. T.
Saltpetre, India.—Holland, T. H., 2.
Salzburg (Austria).—Fugger, E., 4.
—— Alps, Bavarian.—Bleeck, W. G.
Salzgitter (Hanover).—Prinz, G.
Samaropsis.—Krasser, F., 2.
Sambre R. (Belgium).—Lohest, M.
Samoa (Pacific).—Brown, G.; Reinecke, F.
Samwel Cave (Cal.).—Furlong, E. L.
San Bernardino Valley (Cal.).—Mendenhall, W. C., 5.
San Diego Co. (Cal.).—Waring, G. A.
San Fedelino (Lombardy).—Repossi, E.
San Fernando (Trinidad).—Craig, E. H. C., 7.
San Francisco (Cal.).—Anon., 35; Branner, J. C., 3; Davidson, G., 1 & 2; Davison, C., 6; Gilbert, G. K., 4 & 5; Hogben, G., 3; Lapparent, A. de; Oldham, R. D., 2; Omori, F.; See, T. J. J.; Taber, S.; Tarr, R. S., 4.
San José (Mex.).—Kemp, J. F., 5.
San Juan (Chile).—Stutzer, O., 5,
San Juan Mts. (Colo.).—Purington, C. W., 2.
San Luis Park (Colo.).—Gunther, C. G.
San Paolino, Mte. (Sicily).—Stefano, G. di, 2.
Sand-dunes.—*See* Dunes.
—— -nodules, formation of. — Deecke, W., 4.
—— -pit, Via Aurelia (Rome).—Clerici, E., 2.
——, Vesuvius.—Oglialoro, A.
Sandia (Peru).—Pfluecker, L.
Sands, glauconitic.—Collet, L. W., 3.
——, I. of Man.—Reade, T. M., 4.
——, Paris Basin.—Cayeux, L., 7.
——, precipitation of.—Reade, T. M., 3.
——, Sangatte.—Briquet, A., 2.
Sandlingites.—Hyatt, A.
Sandstones, Devon.—Hunt, A. R., 2.
——, Paris Tertiary.—Cayeux, L., 7.
Sandur Hills (Madras Pres.).—Fermor, L. L., 4.
Sangatte (Picardy).—Briquet, A. A., 2.
Sanguinolites.—Reed, F. R. C., 2.
Sankaty Head (Nantucket). — Wilson, J. H.

Sant' Andrea, Cape (Sicily).—Checchia-Rispoli, G., 2.
Santa Barbara (Mexico).—Bromly, A. H.
Santa Cruz Beds, Patagonia.—Sinclair, W. J.
Santa Cruz fault-line (Cal.).—Branner, J. C., 3.
Ste. Geneviève Limestone, Kentucky.—Ulrich, E. O.
Santerre plateau (Somme).—Bardou, P.
Santhia-Arona Ry. (Piedmont).—Sacco, F., 2.
São Paulo (Brazil).—Hussak, E., 2, 4, & 7.
Saône-et-Loire (France).—Gaubert, P., 4.
Sapindoides.—Perkins, G. H.
Sapphire, Australia.—Brauns, R., 3.
——, Ceylon.—Brauns, R., 3.
Saratov Gov. (Russia).—Archangelski, A. D.; Pavlov, A. V.
Sarawak (Borneo). — Geikie, J. S.; Hamilton, W.; Scrutton, T. C.
Sarcolite.—Pauly, A.
Sárd (Transylvania).—Roth von Telegd, L., 2.
Sardinia.—Rimatori, C.; Taramelli, T., 2.
Sarie (Rumania).—Nicolau, T.
Sárisáp (Hungary).—Liffa, A., 1 & 2.
Sarmatian, Galicia.—Friedberg, W. S. von.
——, S. Russia.—Palibin, J. V., 2.
Sarn Valley (Tyrol).—Krahmann, M.
Sars-Poteries (Nord).—Carpentier, A.
Sarul Dornei (Moldavia).—Nicolau, T., 3.
Saskatchewan, R. (Canada). — Whiteaves, J. F.
Sassari R. (Italy).—Capedar, G.
Satna Bághelkhand (Central India).—Fermor, L. L., 5.
Sausar Tahsil (Central Provinces, India).—Fermor, L. L., 3.
Savaii I. (Samoa).—Reinecke, F.
Savernake (Wilts).—Jukes-Browne, A. J.
Savoy (France).—Argand, E.: Badoureau, —; Carez, L., 2; Clemençot, —; Constans-Bonneval, — de; Davin, L.; Deslarmes, J., 1–3; Douxami, H., 1, 3, 4, & 10; Fonné, R. J.; Gimet, F. S.; Girard, —; Hollande, D., 1 & 2; Jeanson, —; Kilian, W., 3, 4, & 10; Lachéroy, —; Moural, —; Poitevin, —, 1 & 3; Renevier, E.; Révil, J., 3–5 & 7–10; Savin, L. H.; Termier, P.; Vivien, J., 1–4; Zaccagna, D.
Sawatch Range (Colo.).—Davis, W. M., 1 & 2.
Saxony.—Cornu, F., 2; Hartung, H.; Hess von Wichdorff, H.; Lehder, J.; Miller, W. G., 3; Sauer, A.; Walther, J.; Washington, H. S., 2; *see also* Erzgebirge, *&c.*
Scalaria.—Dainelli, G.; Oppenheim, P.
Scandinavia, unconformities of strata in.—Tœrnebohm, A. E.
Scania (Sweden).—Bobeck, O.; Douxami, H., 7; Holst, N. O.; Westergård, A. H.; *see also* Gothland.
Scaphiocœlia.—Reed, F. R. C., 2.
Scaphoceros.—Osgood, W. H.
Scaphopoda, Liassic.—Richardson, L.
Scapitulum.—Woodward, H., 6.
Scarabelli, G., *Obit.*—*See* Toldo, G., 2.
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Schaffhausen (Switzerland). — Meister, J.; Nüesch, J.; Paulcke, W.
Schalstein, Moravia.—Kretschmer, F.
——, Nassau.—Brauns, R.
Schandelah (Brunswick).—Stolley, E., 5.
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Schaumburg-Lippe (Germany). — Harbort, E.
Scheelite.—Block, J.; Colomba, L.; Zambonini, F.
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Schellwien, E., *Obit.*—*See* Geyer, G.
Schio (Venetia).—Maddalena, L.
'Schistes lustrés,' Tyrol.—Termier, P.
Schistosity, crystallization &.—Wright, F. E., 2.
Schists, Argyll.—Hill, J. B., 2.
——, Austrian Alps.—Becke, F., 3; Suess, F. E.
——, Corsica.—Rovereto, G.
——, crumpling of Alpine.—Sacco, F.
——, felspars of.—Becke, F., 3.
——, Finland.—Sederholm, J. J.
——, granitization of Huronian.—Bell, J. M., 2.
——, igneous rocks &.—Mennell, F. P.
——, Liguria.—Franchi, S., 5; Rosati, A.
——, Manhattan I.—Julien, A. A.
——, mineral structure of.—Weinschenk, E.
——, Morbihan graphitic. — Pussenot, —.
——, Mysore.—Slater, H. K.; Wetherell, E. W., 2.
——, New Zealand.—Bell, J. M., 3; Sollas, W. J., 3.
——, Oran.—Ficheur, E., 2.
——, Rumania.—Mrazec, L.
——, Savoy.—Termier, P.
——, S. African oldest.—Mennell, F. P., 4.
——, Tyrol.—Lindemann, R.
——. *See also* Crystalline.
Schizoblatta.—Handlirsch, A., 3.
Schizoneura.—Krasser, F., 2.
Schizoneuropsis.—Richter, P. B.
Schleswig-Holstein.—Gagel, C., 1, 4, 5, 7, & 11; Schrœder, H., 3; Stolley, E.; Wolff, W.
Schlœnbachia.—Kossmat, F.
Schlotheimia.—Buckman, S. S., 3.
Schmidt, Alex., *Obit.*—*See* Bœckh, H., 2.
Schrœder Van der Kolk, J. L. C., *Obit.*—*See* Lorié, J.

Schuchertina.—Walcott, C. D., 2.
Schulau (Schleswig-Holstein).—Schrœder, H., 3.
Schwarzenegg (Bern).—Antenen, F.
Sciket (Erythræa).—Manasse, E., 3.
Scilly Is.—Barrow, G.
Sclavatanya (Hungary).—Szontagh, T. von, 2.
Scopoli, J. A.—Muellner, A., 2.
Scotland, Carboniferous crustacea of.—Peach, B. N.
——, Glacial deposits. — Geikie, J.; Jamieson, T. F.; Lamplugh, G. W., 3; Lewis, F. J., 1 & 2.
——, mines & quarries.—*See* Great Britain, Home Office.
——, past geological periods in.—Geikie, Sir A., 3.
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——, vulcanicity & the.—Krebs, W., 2.
—— -water, composition of.—Schlœsing, T.
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Seals, Tertiary.—Condon, T.; True, F. W.
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Sedimentary deposits, nomenclature of.—Prosser, C. S.; Williams, H. S.
—— rocks, classification of.—Barrell, J.; Williams, H. S.
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Segregations, granitic.—Gilbert, G. K., 3.
——, magmatic.—Coleman, A. P., 2.
——, metallic.—Waller, G. A.
Seiche R. (Britanny).—Pavot, —.
Seine R. deposits, Paris.—Pujet, R.
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—— stations, Belgium.—Lagrange, E.
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Seistan (Asia).—McMahon, Sir H.
Seja R. (Siberia).—Ahnert, E. von.
Selenite.—Dalton, W. H.; Fermor, L. L.
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Selkirk Range (B.C.).—Sherzer, W. H.
Semicoscinium.—Hennig, A.
Semieschara.—Brydone, R. M.
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Seminula.—Vaughan, A.
—— -zone, Co. Dublin.—Matley, C. A.
—— ——, Yorkshire.—Johns, C.
Semitriton.—Cossmann, M., 3.
Seneca Valley (N.Y.).—Tarr, R. S.
Senegambia (W. Africa).—Chautard, J., 1 & 2; Meunier, S., 2; Peron, A.
Senne Valley (Belgium).—Halet, F.
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——, W. Prussia.—Jentzsch, A., 5.
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Serapis, Temple of.—Cool, H.
Sericite, albite in Swedish.—Benedicks, C., 2.
Serpentine, Ambon.—Verbeek, R. D. M.
——, Apuan Alps.—Aloisi, P.
——, Argyll.—Hill, J. B., 2.
——, California.—Knopf, A., 2.
——, Finland.—Frosterus, B.
——, Macquarrie I.—Marshall, P., 2.
——, Möll Valley.—Granigg, B.
——, New Zealand.—Bell, J. M., 3; Sollas, W. J., 3.
——, Piedmont.—Mattirolo, E.
——, Tuscany.—Lotti, B.
——, Tyrol.—Lindemann, R.
——, veins in.—Merrill, G. P.
——, Vermont.—Marsters, V. F.
Serpula.—Wegner, T.
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Servia.—Cvijić, J.: Fischer, H.; Stevanović, S.
'Sesia'-gneiss, Piedmont.—Preiswerk, H.
Seton, Port (East Lothian).—Bailey, E. B., 2.
Seville (Spain).—Preiswerk, H., 2.
Seward Peninsula (Alaska).—Moffit, F. H.
Seybouse basin (Algeria).—Blayac, J.
Seymour I. (Galapagos).—Ameghino, F.
Shaler, N. S., *Obit.*—*See* Anon., 15; *&* Davis, W. M., 6.
Shan-si (China).—Walcott, C. D., 4.
Shan States (Asia).—Fermor, L. L., 5; La Touche, T. D., 1, 2, & 4; Simpson, R. R.
Shan-Tung (China).—Lorenz, T., 1 & 2.
Shantungia.—Walcott, C. D., 3; see also *Schantungia*.
Sharks, Quaternary.—Eastman, C. R., 3.
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Sheep-Creek coalfield (Alberta).—Bell, R., 4.
Shelburne (Ont.).—Farrington, O. C., 2.

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—— of fossils preserved in the interior of larger ones.—Kœnen, A. von, 4.
Shere (Surrey).—Herries, R. S., 2.
Shimoga (Mysore).—Slater, H. K.
Shin, Loch (Scotland).—Murray, Sir J.; Peach, B. N., 5.
Shore (Lancs).—Watson, D. M. S., 2.
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——, Norrbotten.—Sjœgren, O.
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Shropshire.—Elles, G. L.; Hind, W., 4.
Shui-ling-shan I. (China).—Schmeisser, C.
Shylina.—Koby, F.
Siagne, R. (Provence).—Guébhard, A., 5.
Siberia (Asia).—Ahnert, E. von; Karpinski, A.; Krasser, F., 2; Maier, E.; Samoïlov, J., 2; Thiess, F.
Sibirites & Sibyllites.—Hyatt, A.
Sicily.—Almagià, R.; Checchia-Rispoli, G., 1, 2, & 4; Cocco, L.; Gonnard, F., 2; Haug, É., 3; Lugeon, M., 2–4; Scalia, S., 2; Stefano, G. di, 2.
Siderite.—Colomba, L., 3; Schaller, W. T.
Sidmouth (Devon).—Lomas, J.; Woodward, H. B., 3 & 4.
Siebeneichen (Prussia).—Gagel, C., 9.
Sierra Nevada (Cal.).—Knopf, A.
Sieves for washing clays, &c.—Range, P.
Sigaretus.—Oppenheim, P.
Sigillaria.—Arber, E. A. N.; Kidston, R., 2; Vinassa de Regny, P., 6.
Sigmagraptus.—Ruedemann, R.
Silesia.—Berg, G., 2; Dathe, E., 1–3; Jahn, J. J.; Kemna, A., 4; Michael, R., 1 & 2; Milch, L.; Pabst, W.; Rosiwal, A.; Till, A.
—— & Bohemian boundary-district. — Petrascheck, W., 2.
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—— -lime series of minerals.—Day, A. L.
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Silicates, formation of.—Kœnigsberger, J., 2.
——, melting-points of.—Dœlter, C., 1 & 3–5; Pœshl, V.; Quensel, P. D., 2; Reiter, H. H.; Vučnik, M.; *see also* Slags, *&c.*
——, molecular volume & viscosity of.—Lœwinson-Lessing, F., 8.
Siliceous iron-ore, Westphalia.—Brauns, R., 2.
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Sillaro (Emilia).—Toldo, G.
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Silurian, Baltic Provinces.—Lamanski, V. V.
——, Brazil.—Clarke, J. M., 4.
——, Caermarthenshire.—Cantrill, T. C., 2.
——, Canada.—Dowling, D. B.; Grant, C. C.; Whiteaves, J. F., 1 & 4.
——, Carnic Alps.—Vinassa de Regny, P., 7.
——, Condroz massif. — Simoens, G., 7.
——, Gothland.—Tœrnquist, S. L.
——, Lake District.—Edwards, E. J.; Marr, J. E., 2.
——, Ludlow.—Elles, G. L.
——, Montgomeryshire.—Wood, E. M. R.
——, New Mexico.—Gordon, C. H.
——, New York.—Clarke, J. M., 7.
——, Normandy.—Matte, H., 2.
——, Podolia.—Siemiradzki, J. von, 1 & 2.
——, Tyrol.—Ohnesorge, T., 2.
——, Yorkshire.—Hughes, T. McK.
——. *See also* Ordovician.
Silver, Almeria.—Fircks, F.
——, Alsace.—Ungemach, —.
——, Asia Minor.—Freise, F.
——, Chile.—Echegarai, N.; Herrmann, A.; San Roman, F. J.
——, Colorado.—Purington, C. W., 2; Schwarz, T. E.
——, Germany.—Bruhns, W.; Einecke, G.
——, Hungary.—Gesell, A., 2.
——, Meurthe-et-Moselle. — Laur, F., 2.
——, Mexico.—Warwick, A. W.
——, New South Wales.—Hall, W. H.; Larcombe, C. O. G.; *see also* New South Wales, Dep. Mines.
——, Ontario.—Campbell, W., 3; Frank, F. J.; Miller, W., 3.
——, Nevada.—Hastings, J. B.; Spurr, J. E., 2 & 4.
——, Peru.—Dueñas, E. I.
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——, Victoria.—Kitson, A. E.
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'Silver-clay,' Scania.—Westergård, A. H.
Silver-lead crystals in slag.—Mœnkemeyer, H.
——, St. Gotthard massif.—Mariani, E., 3.
Silver Peak (Nev.).—Hastings, J. B.
Simbirsk Gov. (Russia).—Archangelski, A. D.; Tovarov, K.
Similkameen batholite, Washington (U.S.A.).—Daly, R. A., 2.
Simiouse, Mt. (Loire).—Gonnard, F.
Simosaurus.—Jækel, O.

Simplon tunnel (Pennine Alps).—Brillouin, M.; Schardt, H., 2; Stefani, C. de, 2.
Sinai (Syria).—Gregory, J. W., 3 & 4.
Sinaloa (Mex.).—Warwick, A. W.
Singapore (Fed. Malay States).—Newton, R. B.
Sinj (Dalmatia).—Kerner, F. von.
Sinopa.—Andrews, C. W.; Matthew, W. D., 2.
Siphonalia.—Cossmann, M., 3.
Sirenia, Tertiary.—Abel, O., 5.
Sirenites.—Diener, C., 3; Hyatt, A.
Sirente, Mte. (Italy).—Casselli, M.
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Skitt's Hill (Essex).—Reader, F. W.
Skorodite, Hungary.—Zimányi, K.
Skull, Voisek human.—Weinberg, R.
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Slavonia.—Gorjanović-Kramberger, K.
Sloth, Tertiary.—Rautenberg, M.
Småland (Sweden).—Tœrnebohm, A. E., 2.
Smaltite, Ontario.—Campbell, W., 3.
Smeroe volcano (Java).—Stigand, I. A.
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——, Dublin.—Pethybridge, G. H.
——, Essex.—Dymond, T. S.
——, French Guinea.—Hébert, A.
——, Latium.—Orzi, D.
——, London, &c.—Woodward, H. B.
——, Hungary.—Emszt, K., 1 & 2; Horusitzky, H., 1–3; László, G. von, 1 & 2; Liffa, A., 1 & 2; Guell, W., 1 & 2; Timkó, E.; Treitz, P., 1, 3, & 4.
——, Mexico.—Villaseñor, F. F.
——, radio-activity of.—Borne, G. von dem.
——, Rumania.—Severin, E.
Solariella.—Oppenheim, P.
Solarium.—Pethœ, J.
Solecurtus.—Harbort, E.
Solenastræa.—Gregory, J. W., 3.
Solifluction.—Andersson, J. G., 2.
Soligo R. Valley (Venetia).—Toniolo, A. R.
Solomon Is. (Pacific).—Chapman, F.
Solothurn (Switzerland).—Schmidt, C.
Soltvadkert (Hungary).—Treitz, P., 3.
Somabula (Rhodesia).—Flett, J. S.; Mennell, F. P., 3.
Somaliland (Africa).—Arsandaux, H.
Somerset.—Reynolds, S. H.; Richardson, L., 2; Sibly, T. F.; Thompson, W., 2; Woodward, H. B., 2.
Somerville (Mass.).—Palache, C.
Somma, Mte. (Vesuvius).—Lacroix, A.
Somme (France).—Dollfus, G. F.; Hermary, J., 2; Houllier, P.; *see also* Picardy.
Somphospongia.—Whitfield, R. P., 2.
Sonneratia.—Pethœ, J.; Stolley, E., 6.
Sonora (Mex.).—McGee, W. J.; Merrill, F. J. H., 2.
Sontiochelys.—Stache, G.
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South Australia.—Duffield, T.; Etheridge, R. (*fil.*); Hancock, L. G.; Stirling, E. C.
—— —— (Central).—Basedow, H.
—— —— (N. Terr.).—Basedow, H., 2; Brown, H. Y. L., 1 & 2.
South Bend (Ind.).—Farrington, O. C., 2.
South Mountain (Pa.).—Stose, G. W.
South Victoria Land (Antarctic).—Ferrar, H. T.
Southern Cross (W. Austral.).—Gibson, C. G.
Southwaite (Lake District).—Marr, J. E., 2.
Spain.—Depéret, C., 4; Hœrnes, R., 1 & 2; Puerta, G. de la; *see also* Aragon, Murcia, Seville, Mineral waters, *&c.*
Spalato (Dalmatia).—Kerner, F. von, 2.
Spaniodera.—Handlirsch, A., 3.
Sparnacian, Paris Basin.—Combes, P. (*fil.*).
Sparth-Bottoms Quarry (Lancs).—Baldwin, W., 1 & 2.
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Spéracèdes (Alpes-Maritimes).—Goby, P.
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Sphæriola.—Fucini, A.
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Sphærulites.—Pethœ, J.
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Sphenomylacris.—Handlirsch, A., 3.
Sphenophyllum.—Arber, E. A. N; Scott, D. H., 2; Vinassa de Regny, P., 6.

Sphenopteris.—Arber, E. A. N.; Kidston, R.; Grand'Eury, F. C., 3.
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Spinel, Elba.—Aloisi, P., 3; Weyberg, Z.
Spirifera.—Foureau, F.; Frech, F., 7; Keidel, H.; Newton, E. T.; Vinassa de Regny, P., 6.
Spiriferina.—Gortani, M., 5.
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Spoleto (Umbria).—Lotti, B., 2; Parona, C. F., 3.
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Sponges, calcareous.—Buetschli, O.
——, Devonian.—Whitfield, R. P., 2.
Sporangia, Pteridospermeæ. — Kidston, R., 3.
Springhill (Nova Scotia).—Bell, R., 2.
Spyroceras.—Whiteaves, J. F., 1 & 3.
Squamosal bone, Tetrapodous Vertebrata. —Thyng, F. W.
Stacheia.—Chapman, F., 5.
Staffordshire.—Cockin, G. M.; Gibson, W.; Lomas, J.; Ward, J., 1 & 2.
Staines (Middlesex).—Kennard, A. S.
Stamford (Lincoln).—Thompson, B., 3.
Stantonia.—Handlirsch, A., 2.
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—— -Limestone Group, Westmorland. —Marr, J. E., 3.
Stavelot (Liége). — Dorlodot, L. de; Lohest, M., 3.
Steamboat Springs (Nev.).—Lindgren, W., 5.
Stederdorf (Brunswick).— Harbort, E., 2.
Stegocephali, Jurassic.—Thyng, F. W.
——, Triassic.—Broili, F.
Steinheim (Würtemberg).—Fraas, E., 3.
Steno.—Fucini, A., 3.
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Sterzing (Tyrol).—Lindemann, R.
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Streptospondylus.—Nopcsa, F., Baron (*fil.*), 2.
Strmica (Dalmatia).—Schubert, R. J., 5.
Stromatocystites.—Miquel, J.
Stromatopora.—Clarke, J. M., 7; Deninger, K.
Stromatoporidæ, Jurassic.—Bakalov, P.
Stromatorhiza.—Bakalov, P.
Stromboli (Lipari Is.). — Wegner, T., 3.
Strombus.—Krumbeck, L.; Lamothe, R. de; Oppenheim, P.
Strömstad (Gothland).—Hamberg, A., 2.
'Strona'-gneiss, Piedmont.—Preiswerk, H.
Strophagraptus.—Ruedemann, R.
Stroud (Gloucester).—Richardson, L., 5; Upton, C.
Strunga, Mt. (Rumania). — Popovici-Hatzeg, V.
Stuebel's volcano-theory. — Dannenberg, A.
Stuetz, A. X., *Obit.*—*See* Berwerth, F., 3.
Stuttgart (Würt.).—Gugenham, M., 2.
Stygetoblatta.—Handlirsch, A., 3.
Stylina.—Gregory, J. W., 3; Koby, F.
Stylocœnia.—Gregory, J. W., 3.
Stylosmilia.—Koby, F.
Styria (Austria).—Aigner, A.; Fabian, K.; Freyn, R.; Heritsch, F.; Redlich, K. A.; Rumpf, J.; Vacek, M.
Subansiri Gorge (Assam).—Diener, C.
Suchum (Caucasus).—Seninski, K., 2.
Suchumica.—Seninski, K., 2.
Sudan (Africa).—Chudeau, R.; Foureau, F.; Lacroix, A., 11.
Sudbury (Ont.).—Barlow, A. E., 1 & 2; Browne, D. H.
Suffolk.—Harmer, F. W., 1–3; Lorié, J., 3; Ridley, E. P.; Whitaker, W., 2.
Sulcoactæon.—Cossmann, M.; Schmidt, M.
Sulitjelma (Norway).—Fletcher, M.
Sulphate of lime, Essex soils.—Dymond, T. S.
Sulphidic ores.—Coleman, A. P., 2.
Sulphur, Java.—Gaubert, P., 2.
——, Michigan.—Kraus, E. H., 1 & 3.
——, Rumania.—Nicolau, T.
——. *See also* United States, Min. Resources.
—— crystals, Bruchsal Triassic.—Beierle, K.
Sumatra (D.E.I.).—Tobler, A.; Volz, W.
Sunderland (Durham).—Abbott, G.
Sundgau (Alsace).—Fœrster, B.
Sunetta.—Cossmann, M., 3.

Superior, Lake (N. Am.).—Bell, J. M., 2; Leith, C. K., 1 & 3; Ossa, I. D.
Surrey.—Anon., 34; Herries, R. S., 2; Hogg, A. J., 1 & 2; Jukes-Browne, A. J., 4; Shenton, H. C. H.; Stanley, W. F.; Young, G. W.
Surveying.—*See* Geological.
Susa Valley (Piedmont).—Zambonini, F., 5.
Sussex.—Dibley, G. E.; Palmer, P. H.; Reid, C., 1 & 4; Shenton, H. C. H.; Ussher, W. A. E., 2; Whitaker, W.
Sutera (Sicily).—Stefano, G. di, 2.
Sutherland (Scotland).—Murray, Sir J., 1 & 2; Peach, B. N., 3 & 5; Shand, J.
Sutton-Mill Lakes (Canada).—Dowling, D. B.
Sutton Mts. (Quebec).—Wilson, A. W. G.
Svealand (Sweden).—Sjœgren, O., 6.
Swabia.—Fraas, O.; Koken, E., 3; Kranz, W.; Plieninger, F., 2; Schuetze, E.
Swainson, W.—*See* Newton, R. B., 2.
Swallow-holes, Alpes-Maritimes.—Janet, A.
——, Bulgaria.—Scorpil, H.
——, Namur.—Brien, V.; Martel, E. A., 13.
——. *See also* Caverns, *&c.*
Swantonia.—Walcott, C. D., 2.
Sweden.—*See also* Iron, Dalecarlia, Norrbotten, Scania, *&c.*
Swedenborg, E., geology &.—*See* Nathorst, A. G., 3.
Swedish Antarctic Expedition.—Andersson, J. G., 3; Kilian, W., 5.
—— Arctic Expedition.—Hamberg, A., 4.
—— granites.—Holmquist, P. J.
—— *Littorina*-deposits.—Adlerz, G.
Swidowiec Mts. (E. Carpathians).—Romer, E.
Switzerland, Alpine lakes.—Bourcart, F. E.
——, geological literature, 1904.—Sarasin, C.
——, glaucophane-rocks.—Grubenmann, U.
——, ore-deposits.—Bueler, H.
——. *See also* Alps, Berne, Earthquakes, *&c.*
Sycidium.—Karpinski, A., 2.
Sycum.—Cossmann, M., 3.
Syenite, Brazil.—Evans, J. W., 2.
——, Finland.—Sundell, I. G.
——, Gothland.—Tœrnebohm, A. E., 2.
——, Los Is.—Lacroix, A., 2.
——, albite-pyroxene, Maine.—Bastin, E. S.
——, New Hampshire.—Pirsson, L. V., 2.
——, Perm.—Loewinson-Lessing, F., 4.
——, Saxony.—Washington, H. S., 2.
——, Sutherland.—Shand, J.
Sylt (Frisian Is.).—Gagel, C., 10; Geinitz, E.; Petersen, J.; Stolley, E., 12.
Sylvite, Vesuvius.—Lacroix, A., 6; Muegge, O.
Symes, R. G., *Obit.*—*See* Anon., 16.
Symphysurus.—Lake, P.
Syndoceras.—Barbour, E. H.
Synthesis, mineral.—Mourelo, J. R.
Syria.—Blanckenhorn, M., 2; Gregory, J. W., 3 & 4.
Syringothyris-zone, Co. Dublin.—Matley, C. A.
——, Yorkshire.—Johns, C., 2.
Syscioblatta & Sysciophlebia.—Handlirsch, A., 3.
Szech'wan (China).—Kingsmill, T. W.
Szeged (Hungary).—Treitz, F.
Szkerisora (Hungary).—Szadeczky, J. von.

Tabasco (Mex.).—Bœse, E.; Halse, E.; Sapper, K., 3.
Tachyhydrite.—Van't Hoff, J. H., 2.
Taconic Mts. (Vt.).—Dale, T. N.
Tæniopteris.—Arber, E. A.
Tagilsk, Nijni (Perm).—Lœwinson-Lessing, F., 4.
Taisnières-en-Thiérache (Nord).—Carpentier, A., 4.
Talerddig (Montgomery).—Wood, E. M. R.
Taliabo I. (D.E.I.).—Bœhm, G., 4.
Taman Peninsula (Russia).—Andrussov, N.; Seninski, K.
Tamaulipas (Mex.).—Kemp, J. F., 5.
Tancredia.—Fucini, A.
Taneda, Lake (Ticino).—Garwood, E. J.
Tanfield Lea (Durham).—Smythe, J. A., 2.
Tanganyika, Lake (Central Africa).—Buttgenbach, H.
Tantobie (Durham).—Smythe, J. A., 2.
Taormina (Sicily).—Checchia-Rispoli, G., 2.
Tapes.—Cragin, F. W.; Pethœ, J.
Tapiolite.—Headden, W. P., 2.
Tarannon (Montgomery) & Tarannon Series.—Wood, E. M. R.
Tarapacá (Chile).—Muro, J.
Tarawera volcanic rift (New Zealand).—Bell, J. M.
Tardeceras.—Hyatt, A.
Tarentaise (Savoy).—Kilian, W., 4.
Tarka Bridge (Cape Colony).—Young, A.
Tarn (France).—Laromiguière, J.; Martel, E. A., 3; Viré, A., 3.
Tarnobrzeg (Galicia).—Friedberg, W. S. von.
Tarns, Co. Waterford.—Reed, F. R. C.
——, Cumberland.—Rastall, R. H., 2.
——, Ticino.—Garwood, E. J.
Tasmania.—David, T. W. E., 3 & 4; Legge, W. V.; Paul, F. P.; Petterd, W. F.; Stephens, T.; Twelvetrees, W. H., 1–8; Waller, G. A., 2; *see also* Tasmania, Dep. Mines, 1–6.
Tatahouine (Tunis).—Lambert, J.; Pervinquière, L., 2.

Tate, R., *Obit.*—*See* Hutton, F. W.
Tauern Tunnel (Styria).—Becke, F., 2.
Taunusian, Cornwall.—Green, U.
Teeth, Creodont.—Tomes, C. S.
——, mammalian.—Gidley, J. W., 3.
Tegelen (Dutch Limburg).—Harmer, F. W.; Lorié, J., 2.
Tejon Formation, California.—Bagg, R. M., Jun.
Tellina.—Harbort, E.; Pethœ, J.
Tellina Valley (Lombardy).—Termier, P., 2.
Telluric bismuth.—*See* Tetradymite.
Teltow Canal (Brandenburg).—Solger, F.
Temagami, Lake (Ontario).—Bell, R., 2.
Temiskaming.—*See* Timiskaming.
Temnograptus.—Ruedemann, R.
Temperature, underground.—Jaczewski, L.; Jenkins, H. C., 2; Kœnigsberger, J., 4; Marriott, H. F.; Strutt, R. J.
Templeux-la-Fosse (Somme).—Dollfus, G. F.
Tenda, Colle di (Liguria).—Sacco, F., 8.
Tennessee (U.S.A.).—Watson, T. L., 2.
Tentaculites.—Clarke, J. M., 5.
Tephrite, Argentina.—Tannhaüser, F.
Tephroite, New South Wales.—Mingaye, J. C. H., 2.
Terebratula.—Gentil, L., 3; Martelli, A., 3.
Terebratulina.—Ascher, E.; Cossmann, M., 3.
Teredo.—Wegner, T.
Terlingua (Tex.).—Hillebrand, W. F.; Turner, H. W.
Ternoise R. (Picardy).—Gosselet, J., 5.
Terraces, Atholl district.—Coates, H.
——, formation of river-.—Capedar, G.; Sevastos, R.
——, Norway.—Rekstad, J.
——, Regnitz Valley.—Neumeister, P.
——, Rhône Valley.—Lamothe, R. de, 2.
——, Saale Valley.—Picard, E.; Wuest, E.
——, Ural Mts.—Duparc, L., 2.
——, Weinheim.—Freudenberg, W.
——, West River (Vt.).—Fisher, E. F.
Terskoï Mts. (Archangel).—Ivanov, A. P.
Tertiary, Algeria.—Schaffer, F. X.
——, Alpes-Maritimes.—Guébhard, A., 3.
——, Alsace.—Fœrster, B.
——, Apennines.—Sacco, F., 6.
——, Austria (Upper).—Abel, O., 2.
——, Aveyron.—Marty, P.
——, Balearic Is.—Hœrnes, R., 2.
——, Balkan Peninsula.—Oppenheim, P., 2.
——, Bavaria.—Stuchlik, H.
——, Belgium.—Delheid, E.; Dewalque, G. J. G.; Leriche, M., 9; Mourlon, M.; Rutot, A., 5.
——, Bosnia.—Martelli, A., 2.
——, California.—Bagg, R. M., Jun.
Tertiary, Caucasus.—Seninski, K., 2.
—— crust-movements, Inner Hebrides.—Harker, A.
——, Dalmatia.—Dainelli, G.
——, Denmark.—Ravn, J. P. J.
——, Donetz Basin.—Borisyak, A., 2.
——, Egypt.—Gregory, J. W., 3; Oppenheim, P.
——, Ekaterinoslav.—Sokolov, N.
——, Emilia.—Sangiorgi, D., 1 & 2; Toldo, G.
——, Galicia.—Friedberg, W. S. von, 1 & 2.
——, Gascony.—Douvillé, H.; Liebus, A.
——, Gotha.—Amthor, R.
——, Greece.—Négris, R., 5; Renz, C., 5.
——, Hanover.—Wollemann, A., 4.
——, Hesse.—Freudenberg, W., 2; Schotter, W.
——, Hungary.—Drevermann, F.
——, Istria.—Manek, F.
——, Kola Peninsula.—Ivanov, A. P.
——, Lauenburg district.—Gagel, C., 5.
——, Louvain.—Velge, G.
——, Luxembourg.—Dubois, E.
——, Madagascar.—Lemoine, P., 3.
——, Magdeburg.—Wiegers, F., 4.
——, Morocco.—Boistel, A.
——, Natal & Zululand.—Anderson, W.
——, New Guinea.—Haupt, O.
——, New Jersey.—Whitfield, R. P., 3.
——, Nigeria (S.).—Parkinson, J., 4 & 6.
——, Nord.—Leriche, M.; Rutot, A., 5.
——, Normandy.—Bigot, A.; Cossmann, M., 3; Dollfus, G. F., 5.
——, Oregon.—McClung, C. E.
——, Orissa.—Bose, P. N., 2.
——, Paris Basin.—Alessandri, G. de; Cayeux, L., 7; Combes, P. (*fil.*); Dollfus, G. F., 2; Fritel, P., 1 & 2; Leriche, M., 8 & 9.
——, Patagonia.—Gaudry, A.
——, Piedmont.—Bellini, R.; Sacco, F., 5.
——, Rome.—Cappelli, G. B.; Napoli, F.; Silvestri, A.
——, Rumania.—Murgoci, G. M., 2.
——, Russia.—Andrussov, N., 1 & 2; Archangelski, A. D.; Palibin, I. V.; Seninski, K.
——, Savoy.—Douxami, H., 4 & 10.
——, Schleswig-Holstein.—Gagel, C., 7 & 12.
——, Senegambia.—Chautard, J.; Meunier, S., 2.
——, Sicily.—Checchia-Rispoli, G., 2.
——, Sinai.—Gregory, J. W., 3.
——, Spain.—Depéret, C., 4; Hœrnes, R., 1 & 2.
——, Sylt.—Stolley, E., 12.
——, Ticino.—Blumer, S.; Schmidt, C., 2.
——, Venetia.—Eastman, C. R.
——, Vermont.—Perkins, G. H.
——, Vienna Basin.—Toula, F., 3.
——, Wight, I. of.—Leriche, M., 3.
——. *See also* Eocene, Miocene, *&c.*

Testudinata.—*See* Chelonia, *&c.*
Testudo.—Andrews, C. W.; Lambe, L. M.
Tetradymite.—Lindstrœm, G.
Tetragraptus.—Ruedemann, R.
Tetrahedrite, New South Wales.—Mingaye, J. C. H., 2.
Teutoberg Forest (Westphalia).—Stille, H.
Texas (U.S.A.).—Cragin, F. W.; Gould, C. N., 2; Hillebrand, W. F.; Howard, K. S.; Philips, W. B.; Slichter, C. S.; Schuchert, C., 2; Turner, H. W.
Thalassochelys.—Andrews, C. W.
Thalenite.—Sjœgren, O., 3.
Thamniscus.—Hennig, A.
Thanet Beds, Nord.—Briquet, A.
Thanetian, the term.—Leriche, M., 7.
Thecodontosaurus.—Huene, F. von, 3.
Thecosmilia.—Angelis d'Ossat, G. de; Koby, F.
Thermal waters, Algeria.—Fleury, —.
—— ——, Alvácza.—Papp, K. von.
—— ——, argon in.—Moureu, C.
—— ——, Baden.—Muehlberg, F.
—— ——, Basque Provinces & Normandy.—Launay, L. de.
—— ——, Cape Colony.—Hahn, P. D.
—— ——, Katanga.—Cornet, J., 4.
—— ——, neon in.—Moureu, C., 2.
—— ——, origin of.—Kœnigsberger, J., 4.
—— ——, Simplon Tunnel. — Schardt, H., 2.
—— ——, Vöslau.—Ludwig, E.
—— ——, vulcanicity &.—Gautier, A., 1 & 2.
—— ——, Wyoming.—Darton, N. H.
Thermopolis (Wy.).—Darton, N. H.
Thersitea.—Oppenheim, P.
Thetis.—Harbort, E.
Thomsonite.—Manasse, E., 2.
Thorianite, Ceylon.—Coomáraswámy, A. K., 2; Dunstan, W. R., 5.
Thorium-minerals.—Boltwood, B. B.
Thracia.—Cragin, F. W.
Thuile (Savoy).—Constans-Bonneval, — de.
Thundersley (Essex).—Salter, A. E., 3.
Thuringia (Germany). — Lehder, J.; Picard, E.; Wuest, E.
Thyestes.—Chapman, F., 3.
Thylacynus.—Sinclair, W. J.
Thylechinus.—Gregory, J. W., 4.
Thyrsiopteris.—Krasser, F., 2.
Tian-Shan Mts. (Asia).—Friederichsen, M.; Keidel, H., 1 & 2; Kleinschmidt, A.; Merzbacher, G.
Tiber R. (Italy).—Angelis d'Ossat, G. de, 2.
Tibet (Asia).—Huntington, E.
Ticino (Switzerland). — Blumer, S.; Garwood, E. J.; Heim, A., 4; Klemm, G., 2; Schmidt, C., 3.
Tidaholm (Gothland). — *See* Sweden, Geol. Undersökn.
Tides, Karroo underground water. — Young, A.
Tides, waves &.—Davis, W. M., 5.
Tierra del Fuego (S. Am.).—Brain, J., 1 & 2.
Timan Mts. (Russia).—Schuchert, C., 2.
Timiskaming, Lake (Ont.).—Bell, R., 4 Campbell, W., 3; Miller, W. G., 1–3.
Tin, Congo Free State.—Buttgenbach, H., 4.
——, Fichtelgebirge.—Schmidt, A.
——, Germany.—Bruhns, W.
——, India.—Holland, T. H., 2.
——, Malay States.—Dunstan, W. R., 2.
——, Mexico.—Bromly, A. H.
——, Perak.—*See* Perak State, Mines Dep.
——, St. Austell.—Williams, R. H.
——, Tasmania.—*See* Tasmania, Dep. Mines, 1–5.
——, Transvaal.—Beck, R., 4.
——, United States. — *See* United States, Min. Resources.
——, Victoria.—Kitson, A. E.
——, W. Australia.—*See* W. Australia, Dep. Mines, 1 & 2.
Tinguaite, New Zealand.—Marshall, P., 3.
Tinnevelli (Madras Pres.).—Fermor, L. L., 5.
Tinnye (Hungary).—Liffa, A., 2.
Tippecanoe Co. (Ind.).—Macbeth, W. A.
Tipperary (Ireland).—Baker, E. A.
Tirolites.—Hyatt, A.
Tissotia.—Kossmat, F., 4,
Titanates, ferro-magnesian.—Crook, T., 2.
Titaniferous basalts, Western Mediterranean.—Washington, H. S.
Titanite.—Palache, C.; Zambonini, F., 3.
Titanodictya.—Handlirsch, A., 3.
Tithonian, Rhætian Alps.—Seidlitz, W. von.
Toba, Lake (Sumatra).—Volz, W.
Todjo (Celebes).—Koperberg, M., 2.
Toggenburg (St. Gall).—Schmidt, C., 2.
Togoland (W. Africa). — Ammon, L. von; Schmeisser, C.
Tolmezzo (Venetia).—Anon., 23; Gortani, M., 4.
Tolo-San I. (China).—Schmeisser, C.
Tom, Lake (Ticino).—Garwood, E. J.
Tomest (Transylvania).—Schafarzik, F.
Tomistoma.—Andrews, C. W.
Tonga Is. (Pacific).—Brown, G.; Chapman, F., 6.
Tonicia.—Cossmann, M., 3.
Tonopah (Nev.).—Lakes, A., 4; Spurr, J. E., 2.
Tookey, C., *Obit.*—*See* Anon., 17.
Tooth-cusp, development in Mesozoic mammals.—Gidley, J. W., 3.
Toppeladugård (Scania).—Holst, N. O.
Torlesse, Mt. (N.Z.), annelid.—Bather, F. A., 2.
Torneå Valley (Norrbotten).—Sjœgren, O.

Tornocz (Hungary).—Horusitzky, H.
Tornquistites.—Hyatt, A.
Torquay (Devon).—Fletcher, J. H.; Salter, M., 1 & 2.
Torriglia (Liguria).—Issel, A., 2.
Tortisipho.—Leriche, M., 2.
Tortoise, Cretaceous.—Riggs, E. S.
Tortona (Piedmont).—Rovereto, G., 2; Sacco, F., 7.
Touat.—*See* Twat District.
Toulon (Provence).—Philippi, E.
Tourmaline.—Spencer, G. F. H.; Stutzer, O., 5; Westergård, A. H., 2.
Tournai (Hainault).—Douxami, H., 6.
Tournier, Mt. (Savoy).—Révil, J., 4.
Toxochelys.—Hay, O. P., 3.
Trachyandesites, Graham Land.—Gourdon, E.
Trachyceras.—Hyatt, A.
Trachydolerites, Dunedin.—Marshall, P.
Trachydomia.—Vinassa de Regny, P., 6.
Trachyostracus.—Lorenz, T., 2.
Trachyte, Argentina.—Taunhaüser, F.
——, Corsica.—Deprat, J., 2.
——, Euganean Hills.—Billows, E.; Cornu, F.
——, Gough I.—Campbell, R.
——, Kilimanjaro.—Lacroix, A., 10.
——, New Zealand.—Marshall, P., 3.
——, Odenwald.—Klemm, G.
——, Queensland.—Jensen, H. I., 2.
——, Somaliland.—Arsandaux, H.
Trans-Caspian District (Central Asia).—Thiess, F.
Transvaal (S. Afr.).—Beck, R., 4; Gau, W. J.; Hall, A. L., 1–5; Harger, H. S.; Hatch, F. H., 1–4; Henderson, J. McC., 1 & 2; Holmes, G. G., 1 & 2; Johnson, J. P., 1, 2, 4–7; Jorissen, E.; Kynaston, H., 1–8; Lehfeldt, R. A.; Marriott, H. F.; Mellor, E. T., 1–4; Molengraaff, G. A. F., 1–3; Sawyer, A. R., 1 & 2; Trevor, T. G.; Tweddill, S. M.; Wessels, J. W.; *see also* Transvaal, Mines Dep., 1 & 2, *&* Africa.
Transvaal Formation, Cape Colony.—Hatch, F. H., 3; Schwarz, E. H. L., 9.
Transylvania (Hungary).—Bœck, H.; Bœttger, O.; Halavats, J.; Kadić, O., 1 & 2; Nopcsa, F., Baron (*fil.*); Pálfy, M. von, 1 & 2; Papp, K. von, 1–3; Roth von Telegd, L., 1 & 2; Rozlozsnik, P., 1 & 2; Schafarzik, F., 1 & 2; *see also* Soils, *&c.*
Traun R. (U. Austria).—Abel, O., 2.
Travancore Coast (India) mud.—Neilson, R. G.
Traversella (Piedmont).—Colomba, L., 1–3; Zambonini, F., 4.
Tree-trunks in Belgian Coal-Measures.—Renier, A.
Trentham (Vict.).—Ferguson, W. H.
Tretheway, Lake (Ont.).—Frank, F. J.
Trevi Quarry, Spoleto.—Parona, C. F., 3.
Trias, Albania.—Renz, C.
——, Alpes-Maritimes.—Jeancard, P.
——, Arizona.—Ward, L. F.
——, Baden.—Beierle, K.; Spitz, W.
——, Bavaria.—Broili, F.
——, British Is.—Cope, T. H.; Lomas, J.
——, Carnic Alps.—Gortani, M., 5.
——, Dalmatia.—Kerner, F. von, 4; Schubert, R. J., 5.
——, Europe.—Frech, F.
——, Greece.—Frech, F., 6 & 8; Renz, C., 2 & 4.
——, Hanover.—Grupe, O., 2; Kœnen, A. von, 2.
——, Harz.—Henkel, L.
——, Himalaya.—Diener, C., 2, 3, & 5.
——, Lombardy.—Mariani, E., 1 & 2.
——, Meurthe-et-Moselle.—Laur, F., 2.
——, Montenegro.—Martelli, A.
——, Swabia.—Schuetze, E.
——, Toulon.—Philippi, E.
——, Tyrol.—Ampferer, O.; Koken, E.
——, Westphalia.—Hornung, F.
——. *See also* Plants, *&c.*
Triassic fauna, S. Africa.—Broom, R., 2.
—— pebbles in N. German Jurassic limestone.—Stille, H., 4.
Tribulaun Range (Tyrol).—Kerner, F. von, 5.
Triceratops.—Gilmore, C. W., 1 & 2; Woodward, H., 5.
Trichosurus.—Sinclair, W. J.
Tridymite.—Day, A. L.; Quensel, P. D., 2.
Triest (Austria).—Mazelle, E.
Trigeria.—Schwarz, E. H. L., 8.
Trigonia.—Ascher, E.; Cragin, F. W.; Krumbeck, L.; Pethœ, J.; Pritchard, G. B., 5; Schmidt, M.
Trigonocarpon.—Scott, D. H., 3.
Trilobites, Cambrian.—Etheridge, R. (*fil.*); Lake, P., 2; Lorenz, T., 2; Miquel, J.; Pack, F. J.; Walcott, C. D., 3.
——, Carboniferous.—Frech, F., 7.
——, Devonian.—Clarke, J. M., 5; Foureau, F.; Lake, P.; Schwarz, E. H. L., 8.
——, Silurian.—Clarke, J. M., 7; Lake, P.; Lamanski, V. V.; Post, L. von, 2; Reed, F. R. C., 4; Tœrnquist, S. L.; Whiteaves, J. F.; Wiman, C., 1 & 2.
Trinidad (W.I.).—Craig, E. H. C., 2–7.
Trinucleus.—Lake, P.
Trionyx.—Bell, R., 2; Hay, O. P.
Trimerella.—Whiteaves, J. F.
Trimingham (Norfolk).—Bonney, T. G., 2; Brydone, R. M., 1 & 2; Hudleston, W. H.; Jukes-Browne, A. J., 2; Woodward, H., 6.
Tripoli (N. Africa).—Krumbeck, L.; Meunier, S.; Parona, C. F., 2; Pervinquière, L.
Tripoli-deposit, Sicily.—Cocco, L.
Trochiliscus.—Karpinski, A., 2.
Trochosmilia.—Angelis d'Ossat, G. de.

Trochus.—Andrussov, N.; Ascher, E.; Cossmann, M., 3; Dainelli, G.; Harbort, E.; Oppenheim, P.; Pethœ, J.; Schmidt, M.
Tromsö (Norway).—Suess, E., 2.
Tropiceltites.—Hyatt, A.
Tropites-limestone, Himalaya.—Diener, C., 2 & 5.
Truncatulina.—Bullen, R. A.
Tschermak, G., *Portrait.*—*See* Becke, F., 4.
Tuberculopleura.—Gortani, M., 5.
Tubicaulis.—Stopes, M. C.
Tübingen (Würtemberg).—Koken, E.
Tufa, calcareous, Gothland.—Halle, T. G.
——, ——, Northampton.—Thompson, B.
Tuff, Namur.—Mathieu, É.
——, Queensland.—Jensen, H. I., 2.
——, Swabian Alps.—Pompeckj, J. F., 3.
——, Waldenberg porphyritic.—Dathe, E., 3.
Tug-River coalfield (W. Va.).—Payne, H. M.
Tumbes (Peru).—Adams, G. I.
Tumkar (Mysore).—Wetherell, E. W., 2.
Tundra, Arctic Russia.—Ramsay, W., 2 & 5.
Tunis (N. Africa).—Haug, É., 3; Lambert, J., 1 & 5; Lamothe, R. de; Pervinquière, L., 2; Termier, P., 4.
Tunnel, Budigsdorf.—Wilschowitz, H.
——, Channel.—Dollfus, G. F., 6.
——, Gallico.—Sacco, F., 2.
——, Güntenstall.—Schmidt, C., 2.
——, Simplon.—Brillouin, M.; Schardt, H., 2; Stefani, C. de, 2.
——, Tauern.—Becke, F., 2.
——, Weissenstein.—Schmidt, C.
Tunnels, Liguria-Piedmont, proposals for.—Figari, L.; Rovereto, G., 2; Sacco, F., 8.
Tuollavaara (Sweden).—Stutzer, O., 2.
Tupus.—Sellards, E. H.
Turbo.—Ascher, E.; Cragin, F. W.; Pethœ, J.; Pritchard, G. B., 5.
Turin (Piedmont).—Bellini, R.; Franchi, S., 2; Roccati, A.; Sacco, F., 3 & 5.
Turkestan, Chinese.—Huntington, E.
Turkey (European).—Cvijić, J.; Nopcsa, F., Baron (*fil.*), 3; Renz, C.; Toula, F.; Vetters, H.
——. *See also* Balkan Peninsula, *&c.*
Turnhout (Antwerp).—Lorié, J., 2.
Turonian, Brunswick.—Wollemann A., 2.
——, Lüneburg, with Quaternary pockets.—Gagel, C., 3.
——, Tripoli.—Parona, C. F., 2.
——. *See also* Cretaceous.
Turritella.—Ascher, E.; Cragin, F. W.; Jukovski, E., 2; Krumbeck, L.; Oppenheim, P.; Pethœ, J.; Replin, J.
Turritoma.—Donald, J.
Tuscany (Italy).—Aloisi, P., 1 & 2; Fucini, A., 4; Lotti, B.; Manasse, E., 1 & 2; Martelli, A., 4.
Tychite.—Schulten, A. de.
Tygerberg Range (Cape Colony).—Sandberg, C. G. S.
Tylostoma.—Choffat, P.; Seidlitz, W. von.
Tyne R. (Northumberland & Durham).—Woolacott, D., 1 & 2.
Types, re-illustration of.—*See* Palæontologia Universalis.
——, U. P. James's Silurian Bryozoa.—Bassler, R. S.
Tyrannosaurus.—Osborn, H. F.
Tyrol (Austria).—Ampferer, O.; Ascher, E.; Blaas, J.; Block, J.; Fearnsides, W. G.; Gordon, M. M. O.; Hammer, W., 1–3; Kerner, F. von, 5; Koken, E., 4; Krahmann, M.; Lindemann, R.; Ohnesorge, T., 2; Rothpletz, A., 2; Suess, E.; Suess, F. E.; Termier, P., 2; Wolff, F. von.
Twat District (Sahara).—Peron, A., 3.
Two Buttes (Colo.).—Cross, W.
Twymyn, Afon (Montgomery).—Wood, E. M. R.

Ubage R. (Dauphiné).—Haug, E.
Uccle, Forest of (Brabant).—Delheid, É., 2; Mourlon, M., 3.
Udine (Venetia).—Lorenzi, A.
Ueberlingen (Lake Constance).—Schalch, F.
Uetersen (Schleswig-Holstein).—Schrœder, H., 3.
Uinta Mts. (Utah).—Berkey, C. P.
Ukpong River (S. Nigeria).—Parkinson, J., 2.
Umbria (Italy).—Lotti, B., 2; Mercial, G.; Parona, C. F., 3; Ugolini, R.
Umtamsuna Series, Pondoland.—Crick, G. C.
Unakite.—Watson, T. L.
Unconformities, N. America.—Willis, B.
——, New Mexico.—Keyes, C. R., 2.
——, palæontological breaks &.—Goodchild, J. G.
——, Scandinavia.—Tœrnebohm, A. E.
Unicardium.—Cossmann, M., 2; Cragin, F. W.
United States, Borings.—Darton, N. H., 3.
—— ——, Geological Survey.—Walcott, C. D.
—— ——, unconformities in the strata.—Willis, B.
—— ——. *See also* United States, Min. Resources; *&* Water, *&c.*
Urach (Würtemberg).—Pompeckj, J. F., 3.
Ural Mts. (Russia).—Duparc, L., 2 & 4; Katterfeld, G. S.; Lœwinson-Lessing, F., 4, 5, & 7; Schuchert, C., 2; Suschinski, P. P.; *see also* Iron, Gabbro, Perm, *&c.*
Uranium-minerals.—Rutherford, E.

Uri, Bay of (Lake of Lucerne).—Abrenz, P.
Úrmény (Hungary).—Horusitzky, H.
Ursus.—Reichenau, W. von; Reynolds, S. H., 2.
Ussel (Auvergne).—*See* FRANCE, Serv. géol.
Ussuria.—Hyatt, A.
Utah (U.S.A.).—Berkey, C. P.; Boutwell, J. M.; Davis, W. M., 3; Lakes, A., 5; Loomis, F. B.; Palmer, L. A.; Richardson, G. B.; Schuchert, C., 2.
Uznach (St. Gall).—Schmidt, C., 2.

Vaal River (S.A.).—Johnson, J. P., 7.
Vadstena (Gothland). — *See* SWEDEN, Geol. Undersökn.
Vag R. (Hungary).—Horusitzky, H., 2.
Vajka (Hungary).—Timkó, E.
Valais (Switzerland). — Duparc, L.; Harre, R. W.; Sarasin, C., 2; Solly, R. H.
Valleys, Andorre.—Chevalier, M.
——, buried.—Simoens, G.
——, glaciation &.—Ferguson, H. G.
——, hanging.—Marr, J. E., 2; Russell, I. C.
——, Himalayas.—Œstreich, K.
——, origin of.—Brunhes, J.
Valloire Valley (Savoy).—Kilian, W., 10.
Valparaiso (Chile). — Bigourdan, G.; Obrecht, A.
Vanadiferous sandstone, Colorado. — Ohly, J.
Vancouver I. (B.C.).—Bell, R., 3.
Vans, Les (Languedoc).—Haug, É., 4.
Var (Provence).—Hitzel, E.; Kilian, W., 2 & 6; Replin, J.
Var R. (France).—Guébhard, A., 5.
Varassova (Greece).—Négris, P., 5.
Vegetation, relation of geology to. — Smith, W. G.
Veins, asphaltic.—Eldridge, G. H.
——, fissure-.—Emmons, S. F.; Kemp, J. F., 3; Louis, H.; Raymond, R. W.; Spencer, A. C.; Spurr, J. E., 3.
——, gold in.—Lovewell, J. T.
——, intersection of, in mines.—Purington, C. W., 3.
——, ore-enrichment in.—Kemp, J. F., 2.
——, origin of.—Kemp, J. F., 4; Spurr, J. E., 4.
——, pebbles in.—Halse, E., 2.
——, pegmatite &.—Beck, R.
——, San Juan Mts.—Purington, C. W., 2.
——, water &.—Hunt, A. R.; Park, J., 1–5; Spencer, A. C., 2.
——. *See also* Mineral-veins, *&c.*
Vena (Sicily).—Scalia, S., 2.
Vence (Alpes-Maritimes). — Guébhard, A., 1 & 3; Lambert, J., 2.
Vendée (France).—Welsch, J., 1–4.
Venediger, Gross (Tyrol). — Weinschenk, E.
Venetia (Italy). — Billows, E., 1 & 2; Cornu, F.; Eastman, C. R.; Giani, A.; Gortani, M., 1–5; Maddalena, L.; Taramelli, T.; Toniolo, A. R., 1 & 2; Vinassa de Regny, P., 7.; *see also* Euganean Hills, *&c.*
Verbano (Piedmont).—Franchi, S.
Vercors (Dauphiné).—Decombaz, O., 2.
'Verd-antique,' Tuscany.—Lotti, B.
Verde, Cape (Senegambia). — Chautard, J., 2.
Vereeniging (Transvaal). — Johnson, J. P.
Verite, Spain.—Osann, A.
Vermetus.—Cossmann, M., 3; Cragin, F. W.; Pethœ, J.
Vermilion (Ont.).—Bell, R., 4.
Vermipora.—Clarke, J. M., 5.
Vermispongia.—Whitfield, R. P., 2.
Vermont (U.S.A.).—Dale, T. N.; Fisher, E. F.; Marsters, V. F.; Perkins, G. H.
Vernon, Mt. (Ky.).—Tassin, W.
Vernii R. (Siberia).—Samoïlov, J., 2.
Verrucano, Engadin. — Schiller, W.; Zœppritz, K.
——, Grisons.—Hœk, H.
Vertebralina.—Bullen, R. A.
Vertebraria.—Arber, E. A. N.
Vertebrata, Bohemian fossil.—Bayer, F.
——, tetrapodous.—Thyng, F. W.
Vescagne (Alpes-Maritimes). — Jeancard, P.
Vesuvius (Italy).—Anon., 28; Bassani, F., 1 & 2; Brauns, R., 4; Contarino, F.; Dœlter, C., 2; Gill, H. V.; Hobbs, W. H., 4; Johnsen, A.; Johnston-Lavis, H. J., 1 & 2; Lacroix, A., 1, 3–7, 9, & 12; Linke, F.; Llord y Gamboa, R.; Lorenzo, G. de, 1 & 2; Meunier, S., 3; Nasini, R.; Oglialoro, A.; Ohnesorge, T.; Quensel, P. D.; Sabatini, V., 2; Sjœgren, O., 8; Wegner, T., 2; Zambonini, F., 1 & 6.
Veszverés (Hungary).—Reguly, E., 2.
Viatka Gov. (Russia).—Ryabinin, A.
Viborg Gov. (Finland).—Ramsay, W.
Vicenza (Venetia).—Billows, E., 2.
Victoria (Austral.).—Chapman, F., 1, 3, & 4; Ferguson, W. H.; Gregory, J. W., 8; Jenkins, H. C., 1 & 2; Johnson, J. P., 3; Kitson, A. E.; Pritchard, G. B., 1–5; Woodward, A. S., 1 & 5.
Victoria Falls (Zambezi R.).—Beck, R., 3; Lamplugh, G. W., 2; Molyneux, A. J. C.
Vida Valley (Transylvania).—Szontagh, T. von.
Vienna (Austria).—Schaffer, F. X., 2; Toula, F., 3.
—— Basin.—Ludwig, E.
Vienne (Dauphiné). — Breuil, H.; Welsch, J., 1–4.
Villarsite.—Colomba, L., 3.
Villé, Val de (Alsace).—Ungemach, —.
Villefranche (Alpes-Maritimes). — Maury, E.

Vimmerby (Gothland).—*See* Sweden, Geol. Undersökn.
Vindhyan Series, India. — Fermor, L. L., 5; Vredenburg, E., 2 & 3.
Vintlite, Piedmont.—Preiswerk, H.
Vintschgau Valley (Tyrol).—Termier, P., 2.
Virginia (U.S.A.). — Tuffany, J. E.; Ward, L. F.; Watson, T. L., 1 & 2; Weed, W. H.
——, W. (U.S.A.).—Payne, H. M.
Vivianite, Ticino.—Schmidt, C., 3.
Vivipara.—Seninski, K., 2.
Vladimir Gov. (Russia).—Stuckenberg, A.
Vlakfontein (Transvaal).—Johnson, J. P., 4.
Vogtland (Saxony).—Lehder, J.
Voisek (Livonia).—Weinberg, R.
Volcanic carbonic acid gas, Auvergne.—Glangeaud, P., 4.
—— conglomerates, Vesuvius & Mont-Dore.—Lacroix, A., 3.
—— cones.—Platania, G.
—— dust, Vesuvian.—Brauns, R., 4; *see also* Dust.
—— ——, ——, radio-activity of.—Nasini, R.
—— eruptions, earthquakes &.—Heilprin, A., 2.
—— ——, origin of.—Fleischer, A.; Reiss, W.
—— ——, Pompeii, St. Pierre, Ottajano, &.—Lacroix, A., 11.
—— ——, Rum (I. of).—Harker, A.
—— ——, Savaii.—Reinecke, F.
—— ——, Tarawera.—Bell, J. M.
—— ——, Tasmanian axial lines of.—Twelvetrees, W. H., 3.
—— ——, Vesuvius.—Anon., 28; Bassani, F., 1 & 2; Contarino, F.; Dœlter, C., 2; Gill, H. V.; Hobbs, W. H., 4; Johnsen, A.; Johnston-Lavis, H. J.; Lacroix, A., 1, 3–7, 9, & 12; Lorenzo, G. de, 1 & 2: Quensel, P. D.; Sabatini, V., 2; Sjœgren, O., 8; Wegner, T., 2.
—— ——, West Indies.—Hovey, E. O., 1–3.
—— fissure, Alexandria (Cape Colony).—Rogers, A. W.
—— flows, Würtemberg.—Fraas, E., 3; Kranz, W.; Pompeckj, J. F., 3.
—— heat, origin of.—Thomson, E.
—— islands, Pacific Ocean.—Brown, G.
—— rocks, phosphatization by birds.—Lacroix, A., 7; *see also* Igneous rocks, *&c.*
Volcanoes, Armenia.—Oswald, F.
——, Auvergne.—Glangeaud, P., 1–4.
——, Colombia.—Stuebel, A.
——, Iceland.—Thoroddsen, Th.
——, Italy.—Sabatini, V., 1 & 2; *see also* Vesuvius, *&c.*
——, Java.—Gaubert, P., 2; Stigand, I. A.
——, Mexico.—Guild, F. N.; Winwood, H. H.
Volcanoes, origin of.—Dannenberg, A.; Forsyth, D., 2.
——, physical geography of.—Anderson, T.
——, radio-activity &.—Dutton, C. E.
——, Savaii.—Reinecke, F.
——, Silesia.—Jahn, J. J.
——, Tonopah ancient.—Lakes, A., 4.
——. *See also* Vesuvius, Vulcanicity, *&c.*
Volga R. (Russia).—Palibin, I. V.
Volhynia (Russia). — Dubyanski, V. V. (Doobyanski); Laskarev, V.
Volócz (Hungary).—Posewitz, T.
Volovecz Mts. (Hungary).—Reguly, E., 1 & 2.
Volsella.—Newton, R. B.
Voltri (Cottian Alps).—Franchi, S., 3.
Voluta.—Oppenheim, P.
Volutilithes. — Newton, R. B., 2; Oppenheim, P.
Vorarlberg (Tyrol). — Blaas, J.; Seidlitz, W. von.
Vosges Mts. — Mueller, F. T.; Sauer, A.; Ungemach, —.
Vöslau (Lr. Austria).—Ludwig, E.
Voulte, La (Languedoc).—Haug, É., 4.
Vryburg (Transvaal). — Holmes, G. G., 2.
Vulcanicity.—Lévy, Aug. M., 2.
——, sea &.—Krebs, W., 2.
——, thermal waters &.—Gautier, A., 1 & 2.
Vulsella.—Chautard, J.
Vysokoï R. (Urals).—Lœwinson-Lessing, F., 5.

Waes, Pays de (Flanders).—Mourlon, M., 4.
Wagrien District (Schleswig-Holstein).—Gagel, C., 11.
Wahra Valley (Baden).—Neumann, R.
Waimakariri (N.Z.).—Bell, J. M., 3.
Wakatipu, Lake (Otago). — Marshall, P., 4.
Waldenberg (Silesia).—Dathe, E., 3.
Waldershare (Kent).—Burr, M.
Waldheimia.—Martelli, A., 3.
Wales, Carboniferous zones of.—Hind, W., 4.
——, mines & quarries. — *See* Great Britain, Home Office.
—— (S.), earthquakes in.—Davison, C., 5.
Warara (India).—Simpson, R. R., 2.
Ward, J., *Obit.*—*See* Anon., 18.
Wardite.—Davison, J. M.
Wargrave (Berks).—Kennard, A. S.
Warmbaths (Transvaal). — Kynaston, H., 7.
Warrumbungle Mts. (N.S.W.).—Jensen, H. I.
Warstein (Westphalia).—Brauns, R., 2.
Wartenberg (Baden).—Becker, E., 2.
Warwickshire.—Cantrill, T. C.; Lomas, J.
Wasatch Range (Utah). — Davis, W. M., 3.

Wasatch R. (Utah).—Lakes, A., 5.
—— Lake-basin (Wy.). — Loomis, F. B., 2.
——-Beds, Utah.—Loomis, F. B.
'Wash' pre-Glacial valley (Durham).—Woolacott, D., 2.
Washington (U.S.A.).—Daly, R. A., 2.
—— Camp (Ariz.).—Crosby, W. O.
'Wash-outs,' Belgium.—Simoens, G., 6.
——, Durham.—Lebour, G. A.
——, Transvaal coal-measures.—Mellor, E. T., 3.
Water-action, rock-decomposition &.—Cushman, A. S.; Hull, E., 3.
——, Aisne.—Rabelle, —.
——, Alghero.—Taramelli, T., 2.
——-analysis, method in the field.—Leighton, M. O.
——, Ardèche.—Raymond, P.
——, Arizona.—Lee, W. T.
——, Australia (Central).—Basedow, H.
——, Bechuanaland.—Du Toit, A., 3.
——, Bournemouth.—Cripps, F. S.
——, Bregenz.—Blaas, J.
——, Bulgaria.—Scorpil, H.
——, California.—Mendenhall, W. C., 2–5.
——, Chambéry.—Hollande, D.
——, Chelmsford.—Salter, A. E., 2.
——, England (S.E.).—Palmer, P. H.; Shenton, H. C. H.
——, Imola.—Sangiorgi, D.
——, Kansas.—Slichter, C. S., 2.
——, Laibach divide.—Kossmat, F.
——, Languedoc, &c.—Viré, A., 3.
——-level, Karroo.—Young, A.
—— ——, Nord, &c.—Gosselet, J., 3 & 7.
—— —— in rocks & influence of sea on, Flanders.—Andrimont, R. d', 1 & 2.
——, limestones &.—Van den Broeck, E.
——, Lincoln.—Hull, E.
——, London.—*See* London: Metropolitan Water Board.
——, Long I. (N.Y.).—Veatch, A. C., 2.
——, Loughborough.—Hodson, G.
——, Moquegua Valley.—Hurd, H. C.
——, Neuchâtel.—Schardt, H.
——, New Mexico.—Keyes, C. R.
——, oceanic.—Lane, A. C., 2.
——, Oklahoma Terr.—Gould, C. N.
——, Orange River Colony &.—Wessels, J. W.
——, Paris Basin.—Dollfus, G. F., 3.
——, percolation of.—Andrimont, R. d', 1 & 2.
——, Peru.—Adams, G. I., 1–3; Stiles, A. I.; Sutton, C. W.
——, Pietrasanta.—Martelli, A., 4.
——, Simplon Tunnel.—Schardt, H., 2.
——, Somme.—Houllier, P.
—— subterranean erosion &.—Schardt, H., 3.
——, Suffolk.—Whitaker, W., 2.
——, Texas.—Gould, C. N., 2; Slichter, C. S.
——, Tiber.—Angelis d'Ossat, G. de, 2.
Water, underground.—Baldwin-Wiseman, W. R., 1 & 2; Brouhon, L.; Dienert, F., 1 & 2; Frech, F., 3; Jæger, H.; Launay, L. de, 2.
——, United States, Eastern.—Fuller, M. L., 3 & 4.
——, Utah.—Richardson, G. B.
——, Var.—Kilian, W., 6.
——, veins & superheated.—Hunt, A. R.
——, Victoria (Austral.).—*See* Victoria, Dep. Mines.
——, volcanic eruptions &.—Fleischer, A.; Gautier, A., 1 & 2.
——, Yorkshire.—Strangways, C. F.
——. *See also* Mineral, Thermal, *&c.*
Waterford, Co. (Ireland).—Reed, F. R. C.
Waterval (Transvaal).—Johnson, J. P., 5.
Watts, W. W.—*See* Anon., 21.
Wavellite, St. Thomas I.—Lacroix, A., 8.
Waves of the sea.—Bertin, E.
——, tides &.—Davis, W. M., 5.
Wealden Beds, Sussex.—Whitaker, W.
—— Shales, Atherfield.—Hooley, R. W.
Wear R. (Durham).=Woolacott, D., 1 & 2.
Weathering of building-stones.—Rideal, S.
—— of rocks.—Hilgard, E. W.
Weber Cañon (Utah).—Lakes, A., 5.
Weinheim (Baden).—Freudenberg, W., 1 & 2.
Weissenfels (Merseburg).—Siegert, L.
Weissenstein Tunnel (Switzerland).—Schmidt, C.
Weisskirchen (Moravia).—Petrascheck, W.
Well, Emporia deep (Kan.).—Smith, A. J.
——, Huntingdon.—Fisher, O., 3.
Wells, Montreal.—Adams, F. D., 4.
——, Ribemont.—Rabelle, —.
——. *See also* Borings.
'Wellenkalk,' Hanover.—Grupe, O., 2.
Wenlockian, Cornwall.—Green, U.
Werbellin, Lake (Brandenburg).—Solger, F., 2.
Weser Valley (Prussia).—Grupe, O.
West Indies.—*See* Martinique, Windward Is., *&c.*
West River (Vt.).—Fisher, E. F.
Western Australia.—Campbell, W. D.; Jackson, C. F. V.; Lindgren, W., 3; Maitland, A. G., 1–4; Woodward, H. P.; *see also* Western Australia, Depart. Mines; *&* Gold, *&c.*
Westfield (Mass.).—Kraus, E. H., 2.
Westland (N.Z.).—Bell, J. M., 3.
Westmorland.—Marr, J. E., 2 & 3; Postlethwaite, J.; *see also* Lake District.
Westphalia (Germany).—Brandes, G.; Brauns, R., 2; Hornung, F.; Krisch, P.; Schmidt, W. E.; Stille, 1, 2, & 5; Wegner, T.

Weybournian, East Anglia.—Harmer, F. W., 2.
Wheeldale (Yorks).—Sewell, J. T., 2.
Whetstone (Middlesex).—Young, A. C.
Whetstones. — *See* United States, Min. Resources.
White Sea (Russia).—Knipovich, N.
Whiteaves, J. F., *Biogr.*—*See* Anon., 22.
Whitehaven (Cumberland).—Shanks, J.
Whitland (Caermarthen).—Evans, D. C.
Whitley Cliff (Northumberland).—Lebour, G. A., 3.
Whittlesey (Mich.).—Taylor, F. B., 1 & 2.
Whyteleafe (Surrey).—Hogg, A. J.
Wichera R. (Tobolsk).—Duparc, L., 4.
Wichita Mts. (Okl.).—Gould, C. N.
Wickham, E. (Kent).—Leach, A. L.
Wickwar (Gloucester).—Winwood, H. H., 2.
Wide Bay (Queensl.).—Jensen, H. I., 2.
Wienerwald (Austria), erratic blocks.—Gœtzinger, G.
Wight, I of.—Colenutt, G. W.; Leriche, M., 3; Hooley, R. W.
Wilberforce Valley (N.Z.).—Bell, J. M., 3.
Wiltshire.—Jukes-Browne, A. J.
Wind-River Beds, Wyoming.—Loomis, F. B.
Windermere, Lake.—Marr, J. E., 2.
Windward Is. (W.I.).—Hill, R. T.
Windworn stones.—Calker, F. J. P.; Foureau, F.; *see also* Pebbles, facetted.
Winnipegosis, Lake (Canada).—Whiteaves, J. F.
Winterbourne (Berks).—White, H. J. O., 1 & 3.
Wisconsin (U.S.A.).—Alden, W. C., 1 & 2; Grant, U. S., 2; Leith, C. K., 3; Purdue, A. H.; Upham, W.; Wheeler, H. A.
Witbank (Transvaal).—Mellor, E. T., 4.
Witpoortje (Witwatersrand).—Johnson, J. P., 6.
Witteberg Quartzites. — Sandberg, C. G. S.
Witu (British East Africa).—Potonié, H., 2.
Witwatersrand (Transvaal). — Hall, A. L., 3; Johnson, J. P., 6; Marriott, H. F.
—— Beds, Klerksdorp.—Jorissen, E.
Wodgina tinfield (W. Austral.).—*See* W. Australia, Dep. Mines, 2.
Wolayer Thörl (Carnic Alps).—Scupin, H.
Wolfram, New South Wales.—Andrews, E. C.
——, Perak.—*See* Perak State, Mines Dep.
Wolframite.—Bodenbender, G.; Headden, W. P., 2.
Wollastonite.—Allen, E. T.; Day, A. L.; Manasse, E., 2.
Wollong Limestone, New South Wales.—Chapman, F., 5.
Wombat Creek (Victoria).—Chapman, F., 3.
Wood, fossil.—Fliche, P.; Ryabinin, A.; Ward, L. F.
Woodall, J. W., *Obit.*—*See* Marr, J. E.
Woolmith Quarry (Mich.).—Kraus, E. H.
World, glaciation of the.—Gugenhan, M.
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